

MESQUITE TRAILS UNIT SIX

BEING A PORTION OF SECTION No. 16, BLOCK 79, TOWNSHIP 3, TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS EL PASO, EL PASO COUNTY, TEXAS CONTAINING 26.828± ACRES

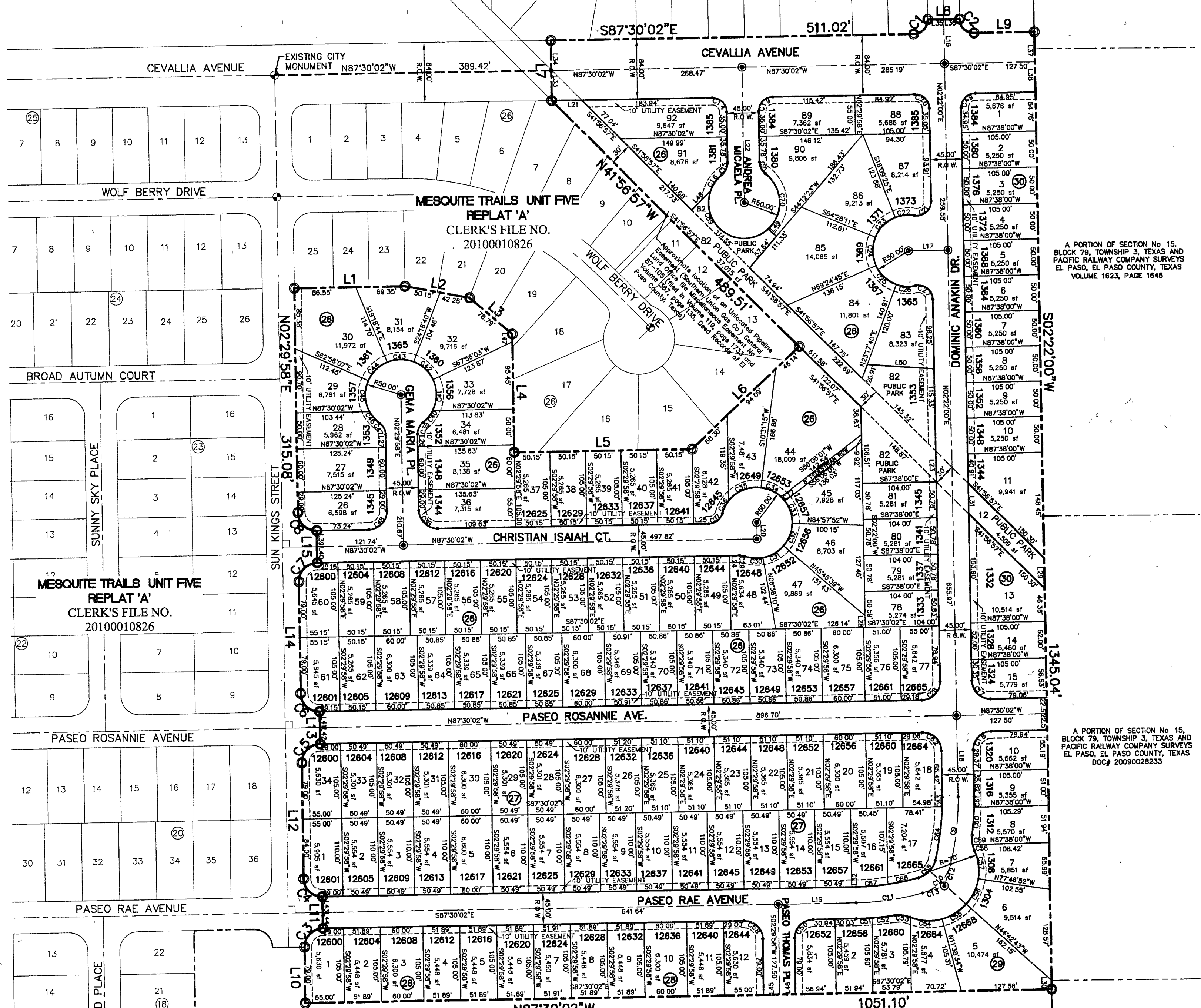
CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	20.00'	31.48'	29.03'	26.37'	N47°25'59"E 80°07'58"
C2	20.00'	31.37'	19.35'	26.43'	S42°34'01"W 88°52'02"
C3	26.00'	40.84'	26.00'	36.77'	N47°29'58"E 80°00'00"
C4	26.00'	40.84'	26.00'	36.77'	N42°30'02"W 90°00'00"
C5	26.00'	40.84'	26.00'	36.77'	N47°29'58"E 80°00'00"
C6	26.93'	40.67'	26.07'	35.77'	N42°30'02"W 89°11'11"
C7	26.00'	40.84'	26.00'	36.77'	N47°29'58"E 80°00'00"
C8	26.00'	40.84'	26.00'	36.77'	N42°30'02"W 90°00'00"
C9	375.00'	94.91'	47.71'	94.65'	N09°37'01"E 142°30'03"
C10	58.00'	59.75'	33.07'	56.95'	N47°25'59"E 61°07'53"
C11	375.00'	94.91'	47.71'	94.65'	N85°14'57"E 142°30'03"
C12	375.00'	32.29'	16.16'	32.28'	N19°20'04"E 45°02'02"
C13	375.00'	32.29'	16.16'	32.28'	N75°31'54"E 45°02'02"
C14	20.00'	31.42'	20.00'	28.28'	N42°34'01"W 89°32'02"
C15	20.00'	16.37'	9.89'	17.73'	N28°38'28"E 52°37'00"
C16	50.00'	27.89'	14.32'	27.53'	S39°08'15"W 31°57'25"
C17	26.00'	40.78'	25.94'	36.73'	S42°34'01"W 89°52'02"
C18	26.00'	40.90'	26.06'	36.81'	S47°25'59"W 90°07'58"
C19	20.00'	31.42'	20.00'	28.28'	S47°29'58"W 90°00'00"
C20	20.00'	31.37'	19.35'	28.25'	N42°34'01"W 89°32'02"
C21	20.00'	35.25'	24.25'	30.86'	N48°07'25"W 100°58'50"
C22	50.00'	27.89'	14.32'	27.15'	N28°38'28"E 52°37'00"
C23	50.00'	40.42'	21.38'	39.32'	S48°41'12"W 46°18'46"
C24	50.00'	40.25'	21.28'	39.17'	S02°28'17"W 46°07'04"
C25	50.00'	40.25'	21.28'	39.17'	S43°38'47"E 46°07'04"
C26	50.00'	27.85'	14.29'	27.49'	S82°39'55"E 31°54'30"
C27	20.00'	35.25'	24.25'	30.86'	N48°07'25"W 100°58'50"
C28	26.00'	40.80'	26.06'	36.81'	N47°29'58"E 80°00'00"
C29	20.00'	27.89'	14.32'	27.15'	N28°38'28"E 52°37'00"
C30	50.00'	25.99'	13.29'	25.69'	S81°44'51"E 29°46'38"
C31	50.00'	34.14'	17.77'	33.48'	N63°48'06"E 39°07'30"
C32	50.00'	34.21'	17.81'	33.55'	N24°36'15"E 39°12'13"
C33	50.00'	33.98'	17.67'	33.33'	N14°25'56"W 38°56'07"
C34	50.00'	31.74'	16.43'	31.21'	N61°17'35"W 36°22'21"
C35	50.00'	51.43'	28.25'	48.20'	S71°03'05"W 43°37'23"
C36	50.00'	20.86'	10.86'	19.86'	S30°07'32"W 22°54'46"
C37	50.00'	25.77'	15.02'	24.03'	N55°35'03"E 73°49'49"
C38	26.00'	40.84'	26.00'	36.77'	S42°30'02"E 90°00'00"
C39	20.00'	18.37'	9.89'	17.73'	S28°48'28"W 52°37'00"
C40	50.00'	21.82'	11.09'	21.65'	N42°36'42"E 25°00'32"
C41	50.00'	45.53'	24.48'	43.97'	N04°01'15"E 52°10'23"
C42	50.00'	38.07'	20.01'	37.16'	N43°52'39"W 43°37'23"
C43	50.00'	38.07'	20.01'	37.16'	N87°30'02"W 43°37'23"
C44	50.00'	38.07'	20.01'	37.16'	S49°52'35"W 43°37'23"
C45	50.00'	45.53'	24.48'	43.97'	S00°58'41"W 52°10'23"
C46	50.00'	21.82'	11.09'	21.65'	S37°36'46"E 25°00'32"
C47	20.00'	18.37'	9.89'	17.73'	N23°48'32"W 52°37'00"
C48	26.00'	40.84'	26.00'	36.77'	N47°29'58"E 80°00'00"
C49	20.00'	31.48'	20.05'	28.30'	S47°29'58"W 80°07'58"
C50	26.00'	40.78'	25.94'	36.81'	N47°29'58"E 80°00'00"
C51	397.50'	21.93'	10.97'	21.92'	S89°04'51"E 3°09'38"
C52	397.50'	32.56'	16.28'	32.55'	N86°58'33"E 4°41'34"
C53	40.00'	21.87'	11.22'	21.60'	N79°41'28"W 31°18'30"
C54	70.00'	45.95'	23.84'	45.13'	S82°30'02"E 37°38'51"
C55	70.00'	40.40'	20.78'	39.84'	N81°49'21"E 33°04'09"
C56	70.00'	40.40'	20.78'	39.84'	N28°45'12"E 33°04'09"
C57	40.00'	40.71'	20.35'	19.86'	N04°26'35"W 33°19'28"
C58	40.00'	9.00'	4.52'	8.98'	S14°39'31"E 12°33'35"
C59	40.00'	12.87'	6.49'	12.81'	S01°00'14"W 18°25'55"
C60	397.50'	39.30'	19.67'	39.29'	N07°23'14"E 53°39'54"
C61	397.50'	15.18'	7.59'	15.18'	N03°27'39"E 21°11'17"
C62	26.00'	40.78'	25.94'	36.73'	N42°34'01"W 89°32'02"
C63	352.50'	13.84'	6.82'	13.64'	N03°28'31"E 21°31'02"
C64	352.50'	75.57'	37.83'	75.43'	N10°43'32"E 121°01'01"
C65	33.50'	35.74'	19.78'	34.07'	N47°25'59"E 61°07'53"
C66	352.50'	44.38'	22.42'	44.35'	N81°36'20"E 71°25'50"
C67	352.50'	44.83'	22.45'	44.80'	N88°51'22"E 71°17'13"
C68	26.00'	40.84'	26.00'	36.77'	N42°30'02"W 90°00'00"
C69	50.00'	132.69'	200.95'	97.04'	S52°52'04"E 152°03'16"
C70	50.00'	88.33'	60.90'	77.29'	N00°29'37"E 101°13'20"
C71	20.00'	18.37'	9.89'	17.73'	S23°48'32"E 52°37'00"
C72	50.00'	8.03'	4.03'	8.03'	N38°30'12"W 91°22'25"

LINE TABLE	
LINE	BEARING
L1	S87°30'02"E
L2	S75°14'53"E
L3	S46°16'05"E
L4	S02°45'53"W
L5	S57°30'02"E
L6	N49°44'02"E
L7	N02°29'58"E
L8	S87°30'02"E
L9	S87°30'02"E
L10	N02°29'58"E
L11	N02°29'58"E
L12	N02°29'58"E
L13	N02°29'58"E
L14	N02°29'58"E
L15	N02°29'58"E
L16	S02°22'00"W
L17	S87°38'00"E
L18	S02°22'00"W
L19	N87°30'02"W
L20	S02°29'58"E
L21	S87°30'02"E
L22	N02°29'58"E
L23	S02°22'00"W
L24	N87°30'02"W
L25	S87°30'02"E
L26	S02°29'58"E
L27	N02°29'58"E
L28	S02°22'00"W
L29	S02°22'00"W
L30	S02°22'00"W
L31	S02°22'00"W
L32	S87°30'02"E
L33	N02°29'58"E
L34	N02°29'58"E
L35	S87°30'02"E
L36	S87°30'02"E
L37	N02°22'00"E
L38	N02°22'00"E
L39	N02°29'58"E
L40	N02°29'58"E
L41	N02°29'58"E
L42	N02°29'58"E
L43	N02°29'58"E
L44	N02°29'58"E
L45	S87°30'02"E
L46	S87°30'02"E
L47	N02°29'58"E
L48	S45°13'03"W
L49	S87°30'02"E
L50	S87°30'02"E

BURNING MESQUITE PARK
CLERK'S FILE NO.
20060109985

A PORTION OF SECTION No. 16,
BLOCK 79, TOWNSHIP 3, TEXAS AND
PACIFIC RAILWAY COMPANY SURVEYS
EL PASO, EL PASO COUNTY, TEXAS
VOLUME 2827, PAGE 277

A PORTION OF SECTION No. 15,
BLOCK 79, TOWNSHIP 3, TEXAS AND
PACIFIC RAILWAY COMPANY SURVEYS
EL PASO, EL PASO COUNTY, TEXAS
VOLUME 2004, PAGE 2971



DEDICATION
Americas Loop 375 Joint Venture, L.P., the owners of this land, do hereby present this map and dedicate their respective portions of property to the use of the public, the streets, public park, pedestrian right-of-way and utility easements as hereon laid down and designated, including easements for overhead of service wires for pole type utilities and the right for installation of service poles alongside lot lines as may be required, easements for buried service wires, conduits and pipes for underground utilities, and the right to ingress and egress for service and construction, and the right to trim interfering trees and shrubs.

Witness my signature this 15th day of December 2010.
[Signature]
R. L. Bowling III, Managing Partner
Americas Loop 375 Joint Venture, L.P.

ACKNOWLEDGEMENT
STATE OF TEXAS
COUNTY OF EL PASO
Before me, the undersigned authority, on this day personally appeared R. L. Bowling III, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act and deed for the purpose and consideration herein expressed.

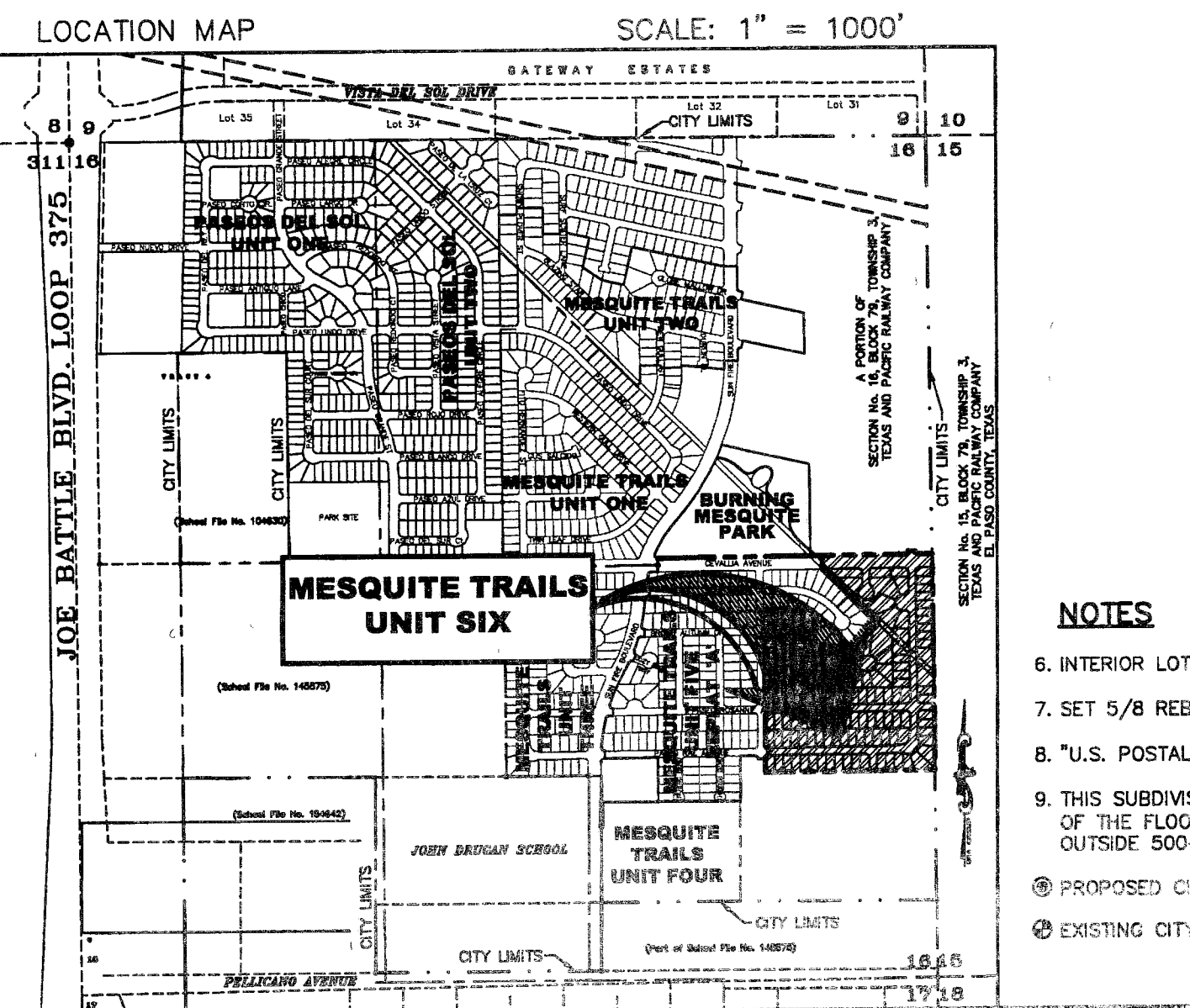
Given under my hand and seal of office this 15th day of December 2010.
[Signature]
Notary Public in and for El Paso County
My Commission Expires January 8, 2011

CITY PLANNING COMMISSION
This subdivision is hereby approved as to the platting and as to the condition of the dedication in accordance with Chapter 212 of the Local Government Code of Texas this 12 day of December 2010.
[Signature] City Engineer
[Signature] Executive Secretary

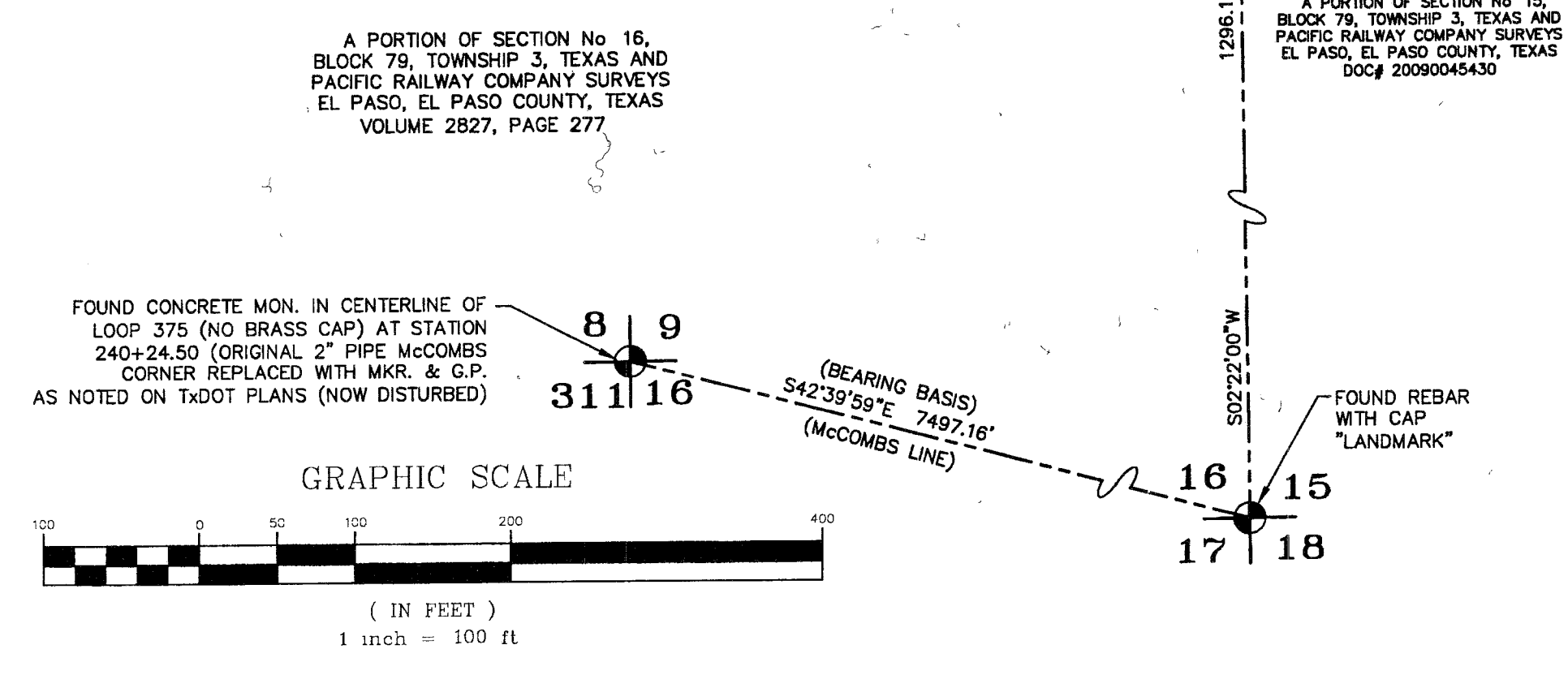
FILING
Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 8 day of February 2011, in File No. 20110007925 of the Plat Records.
[Signature] County Clerk
[Signature] by Deputy

Subdivision improvement plans prepared by and under the supervision of CEA Group.
[Signature] JORGE L. AZCARATE, P.E.
Licensed Professional Engineer
Texas License No. 85075
This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Survey Professional and Technical Standards.
[Signature] Benito Barragan, R.P.L.S. Texas, No. 5615

- NOTES
- THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO MESQUITE TRAILS UNIT SIX BY THE EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD IN ACCORDANCE WITH THEIR RULES AND REGULATIONS AND WITH SECTION 16.343 OF THE TEXAS WATER CODE. WATER AND SEWER SERVICES WILL BE EXTENDED TO THE SUBDIVISION FROM EXISTING FACILITIES LOCATED ON CEVALIA AVENUE AND SUN KINGS STREET AND WILL BE CONSTRUCTED TO SERVE THE SUBDIVISION.
 - TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. 20110007926 2/8/11
 - VEHICULAR ACCESS TO THOSE RESIDENTIAL LOTS ADJACENT TO CEVALIA AVENUE SHALL BE FROM OTHER DEDICATED STREETS ONLY. THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. 20110007927 2/8/11
 - RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. 20110007928 2/8/11
 - SUBDIVISION IMPROVEMENTS AGREEMENT & GUARANTEE FOR THIS SUBDIVISION IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. 20110007929 2/8/11



- NOTES
- INTERIOR LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.
 - SET 5/8 REBAR WITH CAP STAMPED "B&A" AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE SHOWN.
 - "U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS."
 - THIS SUBDIVISION LIES WITH IN ZONE "X" AS DESIGNATED IN PANEL NO. 480214 0046 C, DATED FEBRUARY 16, 2006, OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
 - PROPOSED CITY MONUMENT (FOR EXACT LOCATION CONTACT CITY OF EL PASO)
 - EXISTING CITY MONUMENT

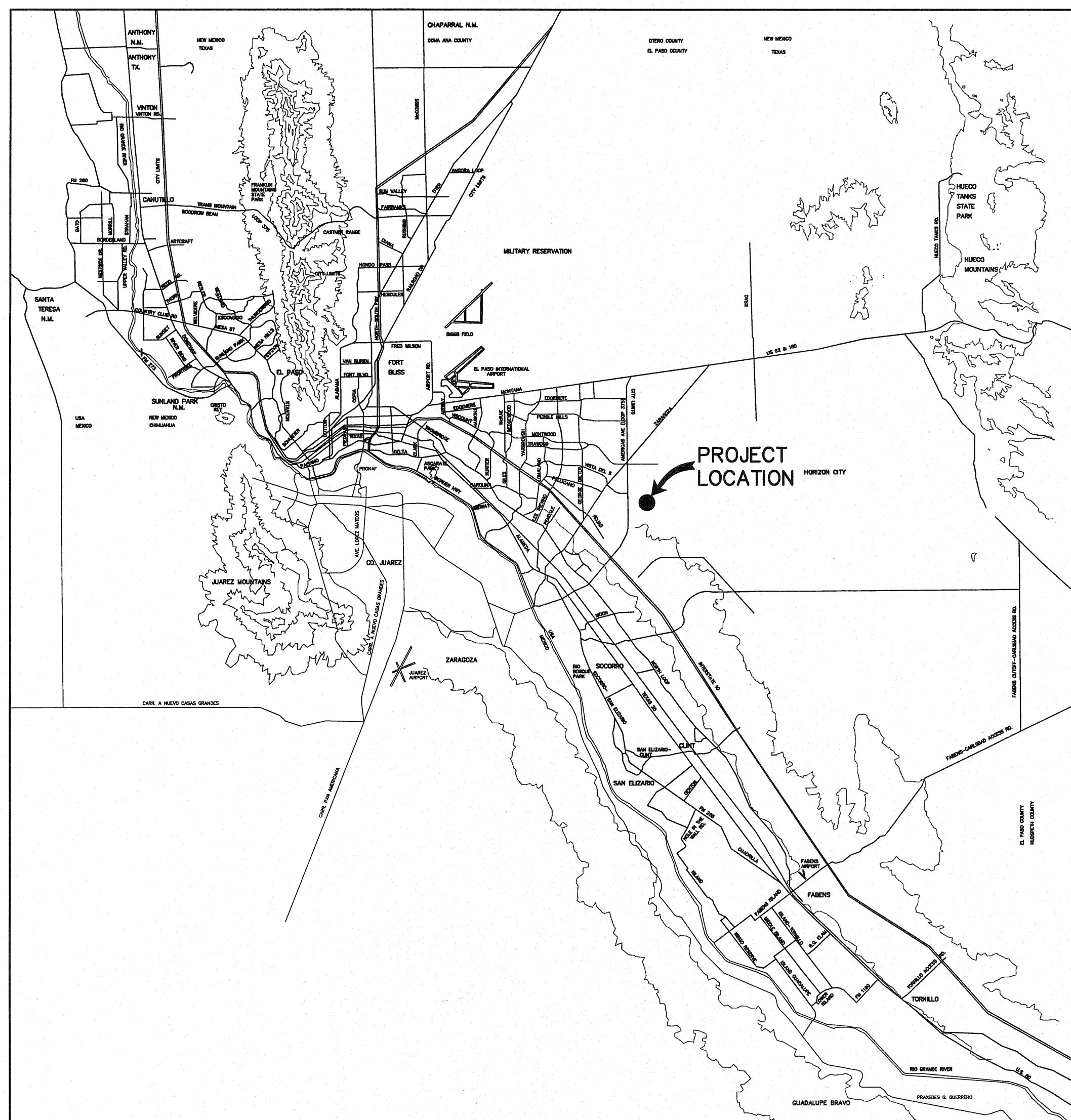


ENGINEER
cea GROUP
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste F, El Paso, TX 79924
Phone: (915) 591-5709 Fax: (915) 544-5233 www.ceagroup.net
CONTACT: JORGE L. AZCARATE, P.E.

SURVEYOR
Barragan & Associates Inc.
LAND PLANNING & LAND SURVEYING
10950 Peticola Drive Bldg F-El Paso Tx 79936
Phone: (915) 591-5709 Fax: (915) 591-5706
CONTACT: BENITO BARRAGAN, R.P.L.S.

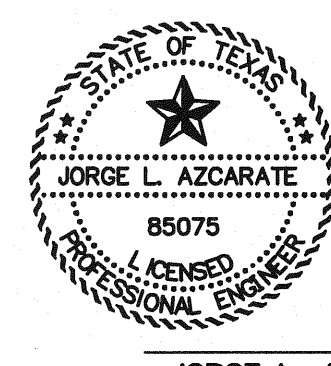
MESQUITE TRAILS UNIT SIX SUBDIVISION IMPROVEMENTS

BEING A PORTION OF SECTION No. 16, BLOCK 79, TOWNSHIP 3,
TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS
EL PASO, EL PASO COUNTY, TEXAS
CONTAINING 26.828± ACRES



VICINITY MAP
APPROXIMATE SCALE:
1" = 2 MILES

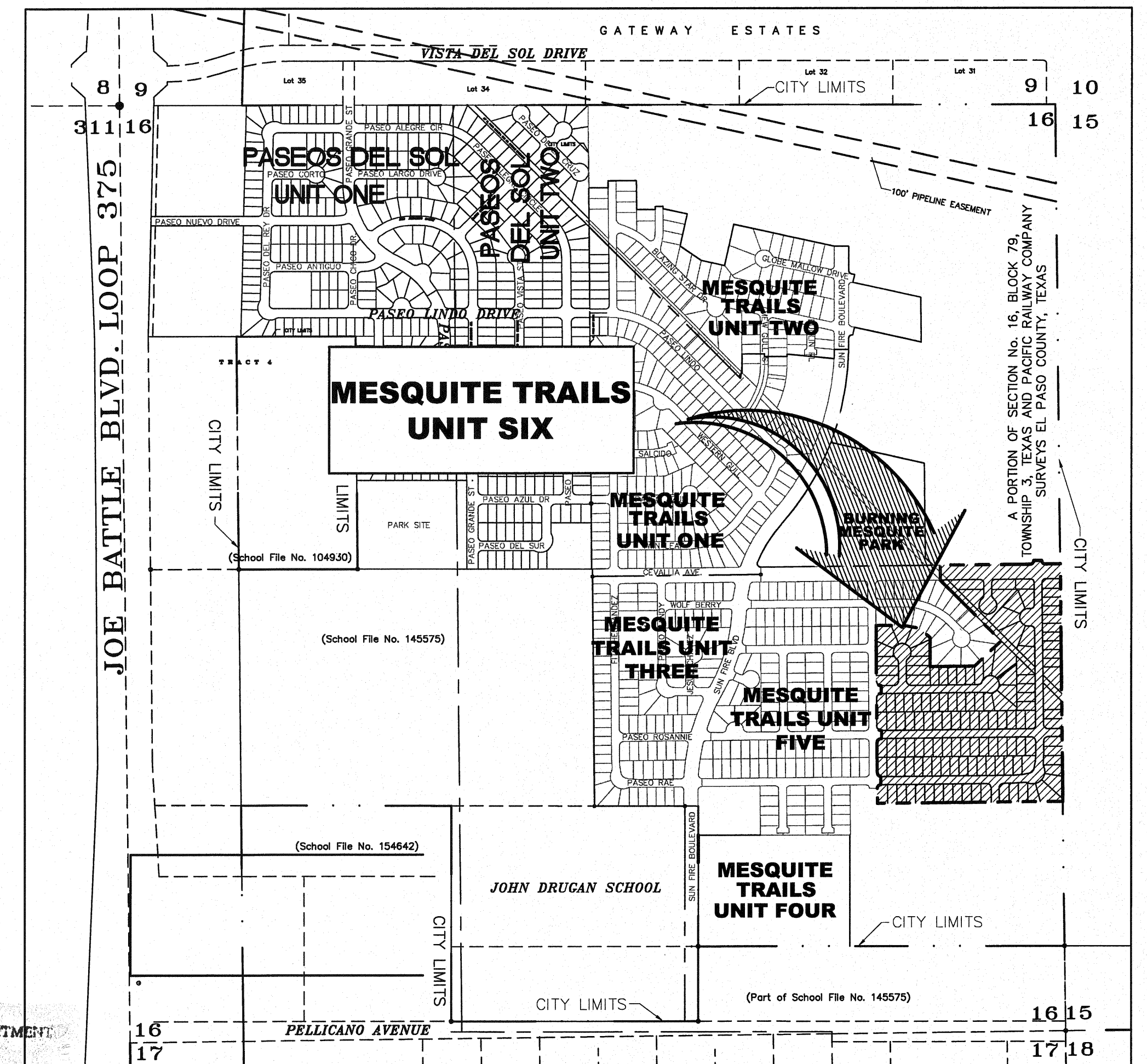
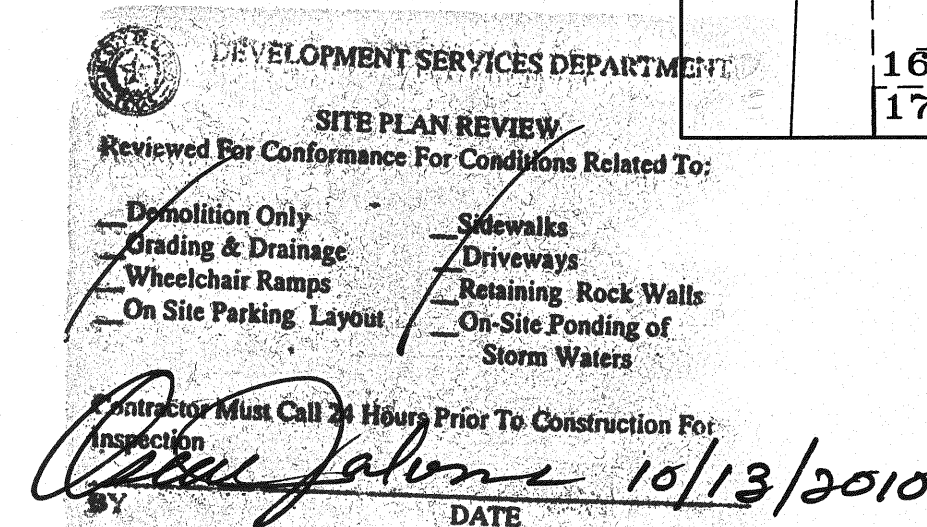
SHEET NUMBER	SHEET TITLE
CVR	COVER SHEET
1	GENERAL INFORMATION
2	PLAT
3	GRADING PLAN
4	DRAINAGE PLAN
5	GRADING SECTIONS
6-13	STREET PLAN & PROFILES
14	STORM DRAIN PLAN & PROFILES
15-17	STANDARD DETAILS
18	DRAINAGE DETAILS
19	ILLUMINATION PLAN
20	HIKE & BIKE TRAIL PLAN
21	HIKE & BIKE TRAIL DETAILS
22-24	STORM WATER POLLUTION PREVENTION PLANS
W-1	WATER LINE INDEX
W-2 - W-5	WATER DETAILS
SS-1	SANITARY SEWER INDEX
SS-2 - SS-4	SANITARY SEWER PLAN & PROFILES
SS-5 - SS-7	SANITARY SEWER DETAILS
L1.00 - L2.00	LANDSCAPE PLANS



JORGE L. AZCARATE, P.E. PROJECT MANAGER



TEXAS REGISTERED ENGINEERING FIRM F-4564
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.net



LOCATION MAP
APPROXIMATE SCALE: 1" = 600'

PRINCIPAL CONTACTS:

	NAME	ADDRESS	CITY & ZIP	PHONE	FAX
OWNER:	AMERICAS LOOP 375 JOINT VENTURE	4655 COHEN AVENUE	EL PASO, 79924	(915) 821-3550	(915) 821-3556
ENGINEER:	CEA GROUP	4712 WOODROW BEAN, STE. F	EL PASO, 79924	(915) 544-5232	(915) 544-5233
SURVEYOR:	BARRAGAN & ASSOCIATES	10950 PELLICANO DR. BLDG. F	EL PASO, 79936	(915) 591-5709	(915) 591-5706

MESQUITE TRAILS UNIT SIX

COVER SHEET				
DATE PREPARED	DRAWN BY:	DESIGN BY:	CHECKED BY:	APPROVED BY:
JUNE 2010	A.B.	F.Z.	J.L.A.	J.L.A.
REVISION NUMBER	SHEET NAME OR NUMBER	DESCRIPTION OF REVISION	DATE OF REVISION	REVISION APPROVED BY:

GENERAL NOTES

- THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
- CONTRACTOR SHALL WATER CONSTRUCTION AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM - ONCE IN THE MORNING AND BEFORE QUITTING TIME. THIS SHALL ALSO BE DONE DURING WEEKENDS AND HOLIDAYS.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM HIS WORK SO AS TO ASSURE PROPER PASSAGE OF STORM RUNOFF DURING THE COURSE OF HIS OPERATIONS. ALL LABOR, TOOLS, EQUIPMENT, AND SUPERVISION REQUIRED TO ASSURE SUCH PROPER PASSAGE OF RUNOFF WATER AND ANY REMOVAL OR HANDLING OF WATER IN ORDER TO MAINTAIN DRY CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE USER, ALL UTILITIES, AND ALL OTHER AGENCIES WITH JURISDICTION OVER THE PROJECT.
- ALL EXISTING PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC., DISTURBED AS A RESULT OF THE NEW CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE OWNER WILL FURNISH HORIZONTAL AND VERTICAL CONTROL REFERENCE POINTS ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
- SEE REFERENCED BENCHMARK ON TITLE BLOCK FOR DATUM ELEVATIONS.
- VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE ENGINEER.
- ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THE PROJECT.
- THE LOCATION OF THE INLETS SHALL BE AT THE FIELD LOW POINT AND APPROVED BY THE ENGINEER.

GRADING SPECIFICATIONS

- CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION; COMPLETELY REMOVE STUMPS, ROOTS AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE; FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY FILL MATERIAL, UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED; REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. BURNING IS NOT PERMITTED ON OWNER'S PROPERTY. REMOVE WASTE MATERIALS FROM OWNER'S PROPERTY.
- SATISFACTORY FILL MATERIALS: FILL MATERIALS SHALL BE FREE OF ANY ORGANIC OR DEleterious SUBSTANCE AND SHALL NOT CONTAIN ROCKS OR LUMPS OVER 3 INCHES IN GREATEST DIMENSION AND SHALL BE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, GC, SM, SP, SM, AND SC.
- UNSATISFACTORY FILL MATERIAL: ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS ML, MH, CL, CH, OL, OH, AND PT, OR WHERE THE PLASTICITY INDEX EXCEEDS 12, UNLESS OTHERWISE APPROVED BY DESIGN ENGINEER, OR CITY ENGINEER.
- EXCAVATION: IS UNCLASSIFIED AND INCLUDES EXCAVATION TO ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIAL AND OBSTRUCTIONS ENCOUNTERED.
- GROUND SURFACE PREPARATION FOR FILL: REMOVE VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIAL, OBSTRUCTIONS, AND DELETERIOUS MATERIAL FROM GROUND SURFACE UPON WHICH THE FILL IS TO BE PLACED. THE SURFACE SHALL THEN BE SCARIFIED TO A DEPTH OF AT LEAST 6-INCHES, AND UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD PREVENT UNIFORM COMPACTION. PLOW STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. AFTER PLOWING AND SCARIFYING FILL AREA, IT SHALL THEN BE DISCED OR BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS, BROUGHT TO OPTIMUM MOISTURE, AND COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557.
- PLACEMENT OF FILL: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. PLACE FILL MATERIALS EVENLY ADJACENT TO SITE APPURTENANCES, PIPING, OR CONDUIT TO REQUIRED ELEVATIONS. PREVENT WEDGING ACTION OF BACKFILL AGAINST SITE APPURTENANCES OR DISPLACEMENT OF PIPING OR CONDUIT BY CARRYING MATERIAL UNIFORMLY AROUND SITE APPURTENANCES, PIPING, OR CONDUIT TO APPROXIMATELY SAME ELEVATION IN EACH LIFT. COMPACT SOIL TO NOT LESS THAN 95% OF MAXIMUM DENSITY, IN ACCORDANCE WITH ASTM D1557.
- MOISTURE CONTROL: WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE CONDITIONED FOR OPTIMUM MOISTURE BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL. APPLY WATER IN MINIMUM QUANTITY AS NECESSARY TO PREVENT FREE WATER FROM APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS. WATER CONTENT SHALL BE WITHIN 2 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
- QUALITY CONTROL: THE OWNER SHALL PROVIDE A GEOTECHNICAL ENGINEER TO PERFORM FIELD DENSITY TEST OF THE COMPACTION OF EACH LAYER OF FILL. DENSITY TESTS SHALL BE TAKEN IN THE COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL TESTING AND WHEN REQUIRED DENSITIES ARE NOT MET, SUPERVISION BY THE GEOTECHNICAL ENGINEER DURING THE GRADING OPERATIONS TO ENSURE GRADING WORK IN ACCORDANCE WITH THIS PLAN AND SPECIFICATIONS.

LEGEND

- SUBDIVISION BOUNDARY
- ROW LINE
- CURB LINE
- PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- MATCH LINE
- STORM SEWER LINE
- HIGH WATER MARK
- CURB AND GUTTER DROP INLET
- STORM SEWER MANHOLE
- FINISHED GROUND CONTOUR ELEVATION (INDEX)
- FINISHED GROUND CONTOUR ELEVATION (INTERMEDIATE)
- EXISTING GROUND CONTOUR ELEVATION (INDEX)
- EXISTING GROUND CONTOUR ELEVATION (INTERMEDIATE)
- NEW RETAINING ROCKWALL (2'-3' IN HEIGHT)
- NEW RETAINING ROCKWALL (3'-9' IN HEIGHT)
- STANDARD DETAIL/SECTION NUMBER
- SHEET NUMBER WHERE STANDARD/SECTION DETAIL IS LOCATED
- FINISHED SPOT ELEVATION
- LOT FINISHED GROUND ELEVATION
- TOP OF CURB ELEVATION
- TOP OF PAVEMENT ELEVATION
- SUBDIVISION LOT AND BLOCK NUMBER
- DRAINAGE FLOW
- HIGH POINT
- LOW POINT
- EXISTING HIGH POINT
- EXISTING LOW POINT
- HEADWALL WITH WINGWALLS
- DRAINAGE AREA
- 3:1 SLOPE HORIZONTAL:VERTICAL SLOPE RATIO
- WHEELCHAIR RAMP

ABBREVIATIONS

- LP LOW POINT
- HP HIGH POINT
- ELEV ELEVATION
- STA STATION
- VCS VERTICAL CURVE STATION
- VCE VERTICAL CURVE ELEVATION
- TC TOP OF CURB
- TM TOP OF MEDIAN
- TP TOP OF PAVEMENT
- TYP TYPICAL
- PVC POINT OF VERTICAL CURVE
- PVI POINT OF VERTICAL INTERSECTION
- PVT POINT OF VERTICAL TANGENT
- AD ALGEBRAIC DIFFERENCE
- CR CURVE RETURN
- ROW RIGHT OF WAY
- CL CENTER LINE
- PL PROPERTY LINE
- FG FINISH GRADE
- FF FINISH FLOOR
- EG EXISTING GRADE
- MIN. MINIMUM
- MAX. MAXIMUM
- RCP REINFORCED CONCRETE PIPE
- Q QUANTITY
- CAP CAPACITY
- EXP EXPECTED
- INV INVERT
- CFS CUBIC FEET PER SECOND
- A AREA
- DA DRAINAGE AREA
- LF LINEAR FEET
- STD STANDARD
- CONC CONCRETE
- PC POINT OF CURVATURE
- PI POINT OF INTERSECTION
- PT POINT OF TANGENT
- L LENGTH
- R RADIUS
- T TANGENT
- Δ DELTA ANGLE
- S SLOPE
- TEMP TEMPORARY
- V VELOCITY IN FEET PER SECOND
- HGL HYDRAULIC GRADE LINE
- HWE HIGH WATER ELEVATION

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SEC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

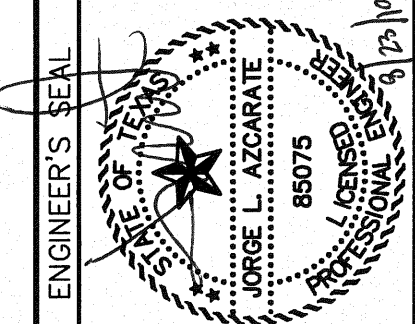
**WARNING !
BEFORE YOU DIG**

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS	
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE	
ELEVATION = 4003.10 (CITY DATUM).	
DATE	REVISIONS
BY	

CS&P
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM #4684
4712 Woodrow Bawn, Ste. F El Paso, TX 79924
Office: 915.544.6232 Fax: 915.544.5233 www.csandp.net



SCALE	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2010
DESIGN BY:	F.Z.
DRAWN BY:	J.M.
CHKD. BY:	J.L.A.
APPVD. BY:	J.L.A.
JOB NO.	2000-117-LD

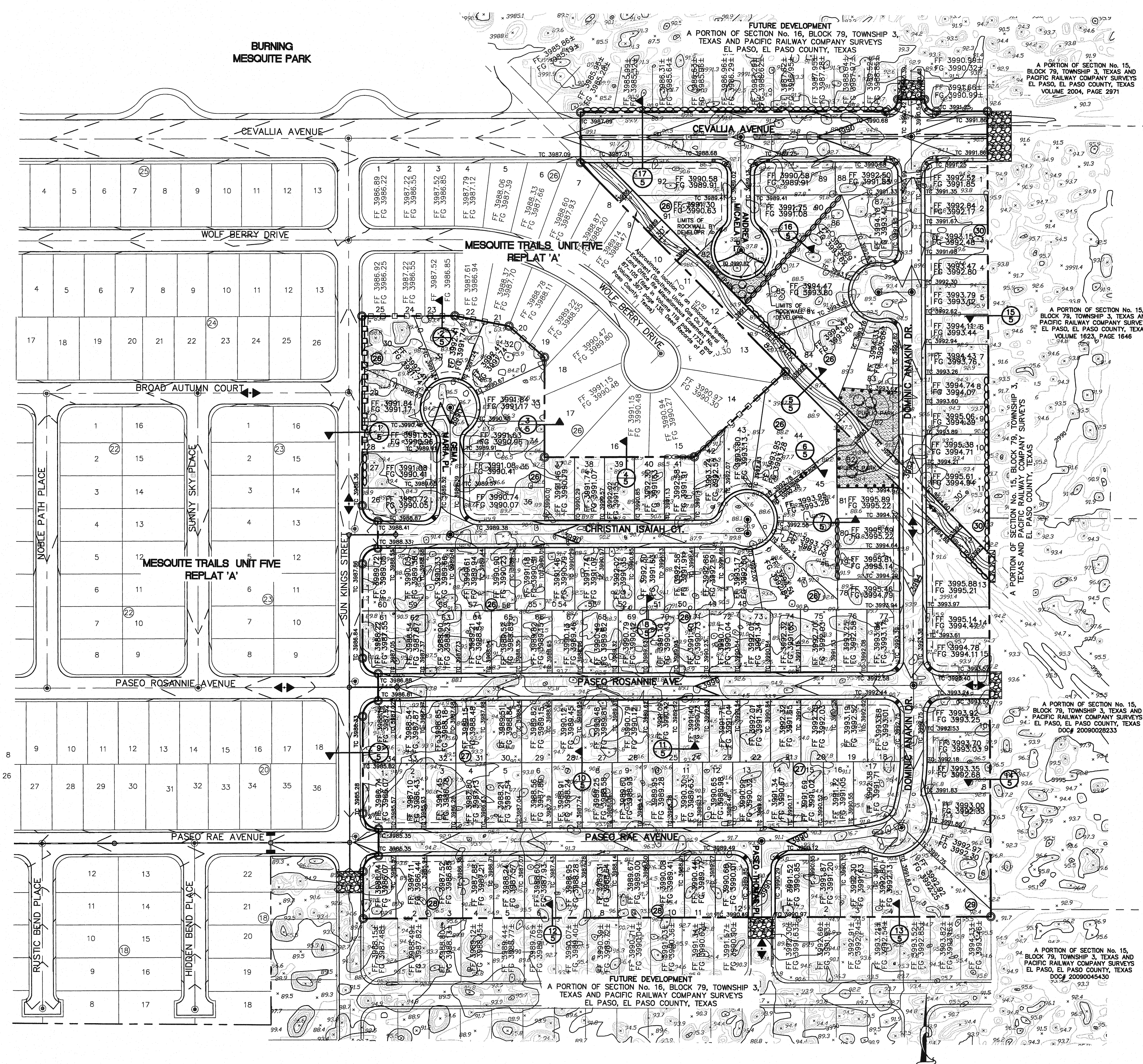
PROJECT NAME

**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

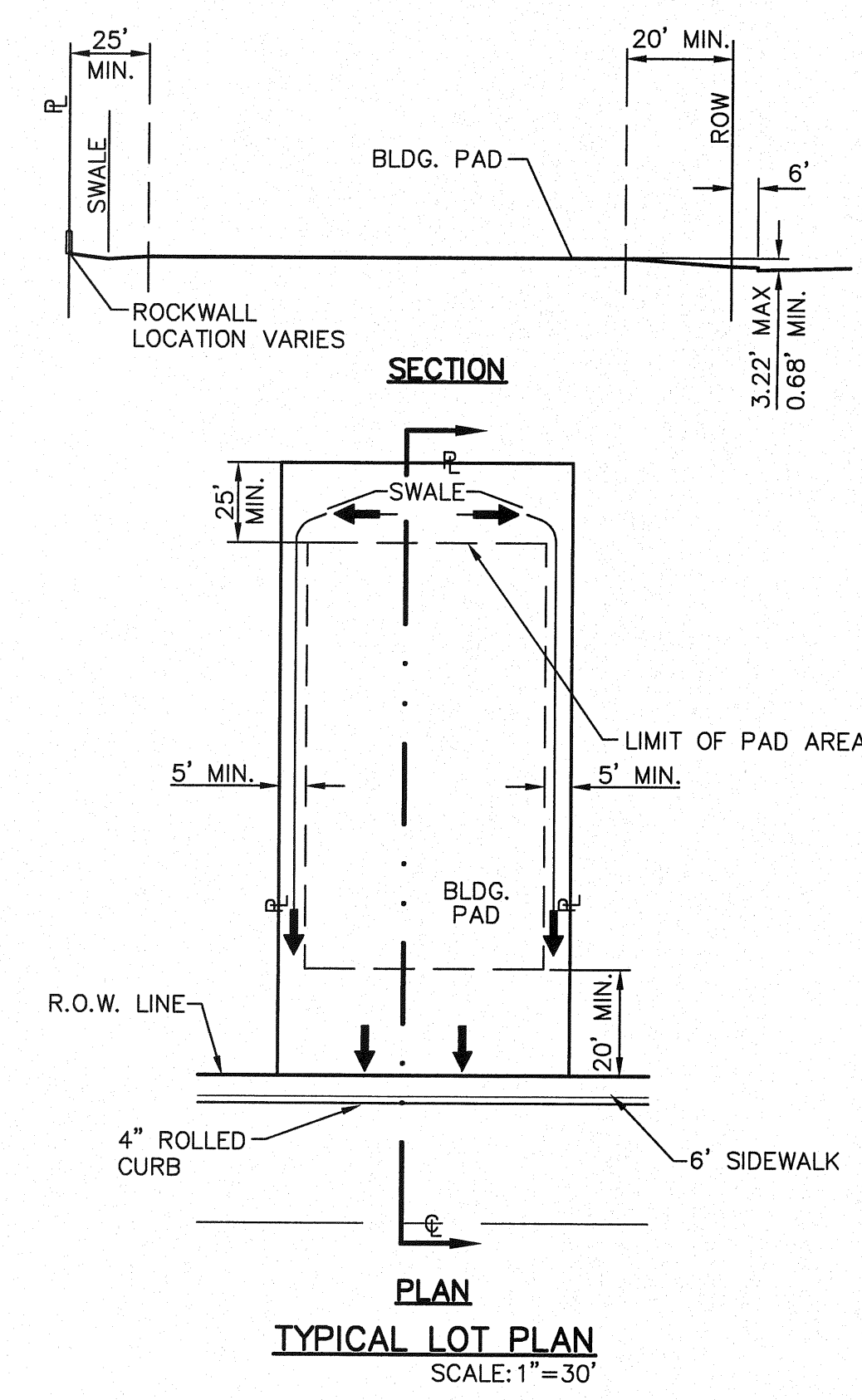
SHEET TITLE	GENERAL INFORMATION
SHEET NO.	1
OF	24

INDEX OF DRAWINGS

DRAWING NAME	SHEET NO.
COVER	-
GENERAL INFORMATION	1
PLAT	2
GRADING PLAN	3
DRAINAGE PLAN	4
GRADING SECTIONS	5
CEVALLIA AVE. PLAN & PROFILE FROM STA. 19+72.65 TO STA. 26+53.81	6
PASEO RAE AVE. PLAN & PROFILE FROM STA: 26+47.42 TO 33+50.00	7
PASEO RAE AVE. PLAN & PROFILE FROM STA: 33+50.00 TO 35+24.73	8
DOMINIC ANAKIN DR. PLAN & PROFILE FROM STA: 35+24.73 TO 40+00.00	9
DOMINIC ANAKIN DR. PLAN & PROFILE FROM STA: 40+00.00 TO 47+39.44	9
PASEO ROSANNIE AVE. PLAN & PROFILE FROM STA: 15+09.39 TO 22+50.00	10
PASEO ROSANNIE AVE. PLAN & PROFILE FROM STA: 22+50.00 TO 25+33.59	11
PASEO THOMAS PL. PLAN & PROFILE FROM STA: 0+00.00 TO 1+27.50	11
CHRISTIAN ISAIAH CT. PLAN & PROFILE FROM STA: 0+48.50 TO 6+68.06	12
GEMA MARIA PL. PLAN & PROFILE FROM STA: 0+00.00 TO 2+10.67	13
ANDREA MICHAELA PL. PLAN & PROFILE FROM STA: 0+00.00 TO 1+88.40	13
LINE A PLAN & PROFILE FROM STA. 0+58.50 TO STA. 0+78.50	14
LINE B PLAN & PROFILE FROM STA. 0+58.50 TO STA. 0+79.86	14
STANDARD DETAILS (SHEET 1 OF 3)	15
STANDARD DETAILS (SHEET 2 OF 3)	16
STANDARD DETAILS (SHEET 3 OF 3)	17
DRAINAGE DETAILS (SHEET 1 OF 2)	18
DRAINAGE DETAILS (SHEET 2 OF 2)	18A
ILLUMINATION	19
HIKE & BIKE TRAIL PLAN	20
HIKE & BIKE TRAIL DETAILS	21
STORM WATER POLLUTION PREVENTION PLAN: GENERAL NOTES	22
STORM WATER POLLUTION PREVENTION PLAN: SITE PLAN	23
STORM WATER POLLUTION PREVENTION PLAN: DETAILS	24
WATER LINE INDEX	W-1
WATER DETAILS (SHEET 1 OF 4)	W-2
WATER DETAILS (SHEET 2 OF 4)	W-3
WATER DETAILS (SHEET 3 OF 4)	W-4
WATER DETAILS (SHEET 4 OF 4)	W-5
SANITARY SEWER INDEX	S-1
SANITARY SEWER PLAN & PROFILE: LINE A	S-2
SANITARY SEWER PLAN & PROFILE: LINE B, C, & D	S-3
SANITARY SEWER PLAN & PROFILE: LINE E, F, G, & H	S-4
SANITARY SEWER DETAILS (SHEET 1 OF 3)	S-5
SANITARY SEWER DETAILS (SHEET 2 OF 3)	S-6
SANITARY SEWER DETAILS (SHEET 3 OF 3)	S-7
LANDSCAPE PLAN	L1.00
IRRIGATION PLAN	L2.00



GRADING PLAN
SCALE: 1" = 100'



TYPICAL LOT PLAN
SCALE: 1" = 30'

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-8005
AT&T	(800) 852-3796
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750 (AFTER HOURS) (915) 240-3220

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

- NOTES:**
- RETAINING WALLS SHALL BE CONSTRUCTED FOR VERTICAL GRADES GREATER THAN 2'-FEET.
 - SLOPED AREAS SHALL BE MAINTAINED BY THE PROPERTY OWNERS.
 - ALL RETAINING WALLS NOT SPECIFIED TO BE CONSTRUCTED BY DEVELOPER, SHALL BE BUILT BY BUILDER.
 - RETAINING WALL DESIGN REQUIRED AT THE TIME OF BUILDING PERMIT.
 - DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 (EXCESSIVE PAVING CUTS) OF THE EL PASO MUNICIPAL CODE.
 - IMPROVEMENTS SHALL NOT BE PLACED ON SIDEWALK (NDBCU'S, SIGNS, POLES, FIRE HYDRANTS, ETC.) REFER TO STANDARD DETAILS SHEET FOR SPECIFICATIONS.
 - IMPROVEMENTS SHALL COMPLY WITH T.A.S./A.D.A. STANDARDS.
 - MAINTENANCE OF BASINS, SLOPED AREAS, FENCING AND LOOSE ROCK RIP-RAP OUTSIDE SUBDIVISION BOUNDARIES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ADJACENT SUBDIVISIONS ARE FULLY DEVELOPED AND DEDICATED TO THE CITY OF EL PASO FOR MAINTENANCE.
 - WHEELCHAIR RAMPS TO BE CONSTRUCTED BY DEVELOPER AS PART OF SUBDIVISION IMPROVEMENTS.

BENCHMARK

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

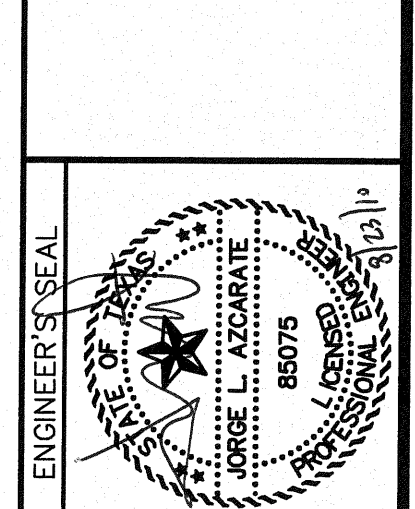
FLOOD ZONE:

THIS SUBDIVISION LIES WITH IN ZONE "X" AS DESIGNATED IN PANEL NO. 480214 0046 C, DATED FEBRUARY 16, 2006, OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

- LEGEND:**
- NEW RETAINING ROCKWALL (2'-3' IN HEIGHT)
 - NEW RETAINING ROCKWALL (3'-9' IN HEIGHT)
 - EXIST. RETAINING ROCKWALL (2'-3' IN HEIGHT)
 - EXIST. RETAINING ROCKWALL (3'-9' IN HEIGHT)
 - TEMPORARY DESILTING BASIN 8" TO 12" LOOSE ROCK RIP-RAP

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).



SCALE: 1" = 100'
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.L.A.
CHKD. BY: J.L.A.
APP'D. BY: J.L.A.
JOB NO.: 2000-117-LD

PROJECT NAME
MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS

SHEET TITLE
GRADING PLAN

SHEET NO.
3

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

EXISTING RETENTION POND
LOT 4, BLOCK 15, MESQUITE TRAILS UNIT THREE

EXISTING POND #1 CALCULATIONS

$QT = (ARC)/12$
 $QT = 10.972$
 $A = 51.753$
 $R = 4"$
 $C = 0.636$
 $QT \times 25\% = 2.743$
 $10.972 + 2.743 = 13.715$

SILT VOLUME = 0.621
 0.012 AC-Ft/AC
 $13.715 + 0.621 = 14.336 \text{ AC-Ft}$
TOTAL_{req} = 14.336 AC-Ft

EXISTING POND#1 AREAS

CONTOUR	ACCUMULATED VOLUME (AC-Ft.)
3972.75	15.728
3971.75	14.427
3970.75	13.195
3969.75	12.029
3968.75	10.927
3967.75	9.889
3966.75	8.913
3965.75	7.997
3964.75	7.139
3963.75	6.337
3962.75	5.591
3961.75	4.898
3960.75	4.257
3959.75	3.666
3958.75	3.123
3957.75	2.628
3956.75	2.177
3955.75	1.770
3954.75	1.404
3953.75	1.079
3952.75	0.793
3951.75	0.543
3950.75	0.329
3949.75	0.149
3948.75	0.000

EXISTING RETENTION POND #1

BASIN NO.	REQUIRED CAPACITY (AC.-FT.)	AVAILABLE CAPACITY (AC.-FT.)	PEAK INFLOW (CFS)	OUTLET TOWER FLOW (CFS)	HIGH WATER SURFACE ELEV. (FT.)	BOTTOM ELEVATION (FT.)	FREE BOARD (FT.)
1	14.336 (2)	15.728	93.575	0	3971.68± (2)	3948.75	1.070

NOTES FOR EXISTING POND #1:

- THE HWSE REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO. THE HWSE DOES NOT INCLUDE 25% EMERGENCY STORAGE. HOWEVER, THE TOTAL POND CAPACITY SHALL HOLD TOTAL REQUIRED STORM WATER RUNOFF.
 $HWSE = QT + SILT VOLUME$
 $HWSE = 10.972 + 0.621 = 11.593 \text{ AC-Ft}$
 CONTOUR 3968.75, ACCUMULATED VOLUME = 12.029 AC-Ft
 CONTOUR 3970.75, ACCUMULATED VOLUME = 13.195 AC-Ft
 HIGH WATER SURFACE ELEVATION = 3970.01
- THE TOTAL STORAGE HWSE REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO AND INCLUDES 25% EMERGENCY STORAGE.
 $HWSE = QT + SILT VOLUME + 25\% \text{ EMERGENCY STORAGE}$
 $HWSE = 10.972 + 0.621 + 2.743 = 14.336 \text{ AC-Ft}$
 CONTOUR 3970.75, ACCUMULATED VOLUME = 13.195 AC-Ft
 CONTOUR 3971.75, ACCUMULATED VOLUME = 14.427 AC-Ft
 HIGH WATER SURFACE ELEVATION = 3971.68

EXISTING RETENTION POND
LOT 1, BLOCK 18, MESQUITE TRAILS UNIT THREE

EXISTING POND #2 CALCULATIONS

$QT = (ARC)/12$
 $QT = 18.696$
 $A = 84.345$
 $R = 4"$
 $C = 0.665$
 $QT \times 25\% = 4.674$
 $18.696 + 4.674 = 23.370$

SILT VOLUME = 1.012
 0.012 AC-Ft/AC
 $23.370 + 1.012 = 24.383 \text{ AC-Ft}$
TOTAL_{req} = 24.383 AC-Ft

EXISTING POND#2 AREAS

CONTOUR	ACCUMULATED VOLUME (AC-Ft.)
3977	26.145
3976	24.564
3975	23.034
3974	21.553
3973	20.120
3972	18.736
3971	17.399
3970	16.109
3969	14.865
3968	13.666
3967	12.511
3966	11.400
3965	10.332
3964	9.306
3963	8.321
3962	7.377
3961	6.473
3960	5.607
3959	4.780
3958	3.991
3957	3.238
3956	2.522
3955	1.840
3954	1.193
3953	0.590
3952	0.000

EXISTING RETENTION POND #2

BASIN NO.	REQUIRED CAPACITY (AC.-FT.)	AVAILABLE CAPACITY (AC.-FT.)	PEAK INFLOW (CFS)	OUTLET TOWER FLOW (CFS)	HIGH WATER SURFACE ELEV. (FT.)	BOTTOM ELEVATION (FT.)	FREE BOARD (FT.)
1	24.383 (2)	26.145	129.712	0	3975.88± (2)	3952.00	1.120

NOTES FOR EXISTING POND #2:

- THE HWSE REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO. THE HWSE DOES NOT INCLUDE 25% EMERGENCY STORAGE. HOWEVER, THE TOTAL POND CAPACITY SHALL HOLD TOTAL REQUIRED STORM WATER RUNOFF.
 $HWSE = QT + SILT VOLUME$
 $HWSE = 18.696 + 1.012 = 19.708 \text{ AC-Ft}$
 CONTOUR 3972, ACCUMULATED VOLUME = 18.746 AC-Ft
 CONTOUR 3973, ACCUMULATED VOLUME = 20.120 AC-Ft
 HIGH WATER SURFACE ELEVATION = 3972.70
- THE TOTAL STORAGE HWSE REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO AND INCLUDES 25% EMERGENCY STORAGE.
 $HWSE = QT + SILT VOLUME + 25\% \text{ EMERGENCY STORAGE}$
 $HWSE = 18.696 + 1.012 + 4.674 = 24.383 \text{ AC-Ft}$
 CONTOUR 3975, ACCUMULATED VOLUME = 24.564 AC-Ft
 CONTOUR 3976, ACCUMULATED VOLUME = 26.145 AC-Ft
 HIGH WATER SURFACE ELEVATION = 3975.88

DROP INLETS

NO.	REQ. FLOW CAPACITY (CFS)	AVAIL. FLOW CAPACITY (CFS)	ADDITIONAL FLOW (CFS)	FLOW BYPASS (CFS)	# OF GRATES	TYPE OF INLET
3	9.820	14.155	0.000	0.000	3	III
4	9.820	14.155	0.000	0.000	3	III
5	5.332	14.155	0.000	0.382	3	III
6	4.951	14.155	0.832	0.000	3	III
7	6.315	14.155	0.000	1.515	3	III
8	5.628	14.155	1.515	0.000	3	III

* THESE CAPACITIES CORRESPOND TO A CLOGGING FACTOR OF 0.5

WATERSHED AREAS

DRAINAGE AREA NO. (1)	DRAINAGE AREA (AC) (2)	DESIGN STORM INTENSITY (125) (3)	TIME OF CONCENTRATION (4)	RUNOFF COEFF. (5)	Q ₂₅ (CFS) (6)
DA-1	6.390	2.873	24.78	0.680	12.484
DA-2	0.513	4.431	10.00	0.900	2.045
DA-3	4.263	2.826	25.50	0.650	7.830
DA-4	2.222	2.891	24.50	0.640	4.111
DA-5	2.966	2.928	23.96	0.658	5.714
DA-6	2.471	2.845	25.20	0.650	4.569
DA-7	2.799	2.826	25.50	0.660	5.220
DA-8	4.568	2.821	25.57	0.670	8.633

MOMENTUM COMPUTATION

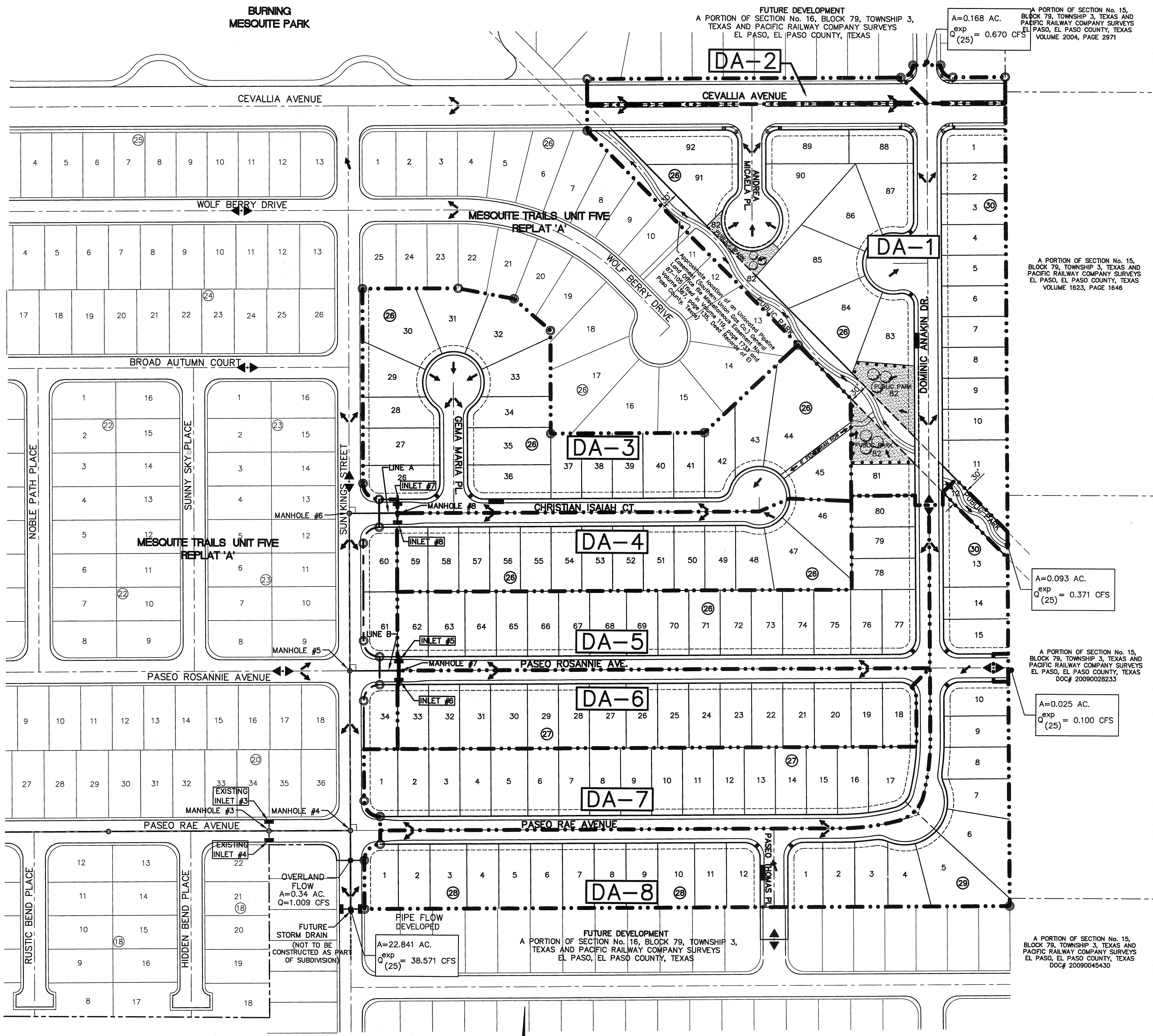
LOCATION (1)	DEPTH (2)	VELOCITY (3)	PRODUCT NUMBER (4)
3	0.30	2.67	0.80
4	0.30	2.66	0.79
5	0.25	2.17	0.54
6	0.24	2.13	0.51
7	0.27	2.21	0.60
8	0.25	2.15	0.54

(1) LOCATION
(2) DEPTH
(3) VELOCITY
(4) PRODUCT NUMBER = DEPTH X VELOCITY

REFERENCE: CITY OF EL PASO SUBDIVISION STANDARDS (3-11-97)

- WATERSHED AREA IDENTIFICATION
- AREA FROM DRAINAGE PLAN
- RAINFALL INTENSITY, 25 YEAR STORM => PLATE NO. 2-14
- TIME OF CONCENTRATION: TC= T (OVERLAND) + T (GUTTER)
- RUNOFF COEFFICIENT => PLATE NO. 2-10 TABLE A
RESIDENTIAL AREA = 0.60
PAVEMENT AREA = 0.90
- Q₂₅ = C X A X I₂₅

FLOOD ZONE:
THIS SUBDIVISION LIES WITH IN ZONE "X" AS DESIGNATED IN PANEL NO. 480214 0046 C, DATED FEBRUARY 16, 2006, OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.



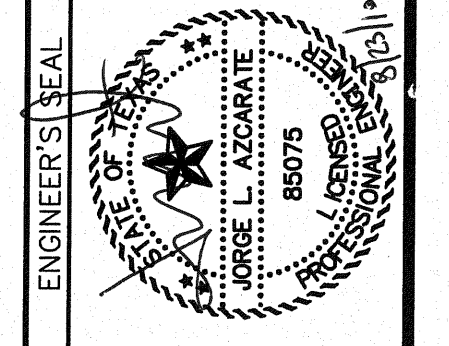
DRAINAGE PLAN
SCALE: 1" = 100'

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASO ALLEGRE CIRCLE AND PASO UNDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

ceea
CORPORATION
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM #4864
4712 Woodrow Bean, Ste. F, El Paso, TX 79924
Office: 915.544.5322 Fax: 915.544.5325 www.ceea.com



SCALE: 1" = 100'
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB NO. 2000-117-LD

MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS

SHEET TITLE

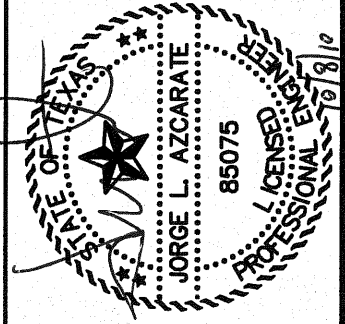
DRAINAGE PLAN

SHEET NO.

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-8005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750 (AFTER HOURS) (915) 240-3220

WARNING I BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

ENGINEERS SEAL

 engineers • architects • planners
ORUP
 TEXAS REGISTERED ENGINEERING FIRM F-464
 4712 Woodloch Blinn, Suite F, El Paso, TX 79924
 Office: 915.544.5232 Fax: 915.544.5233 www.orup.com

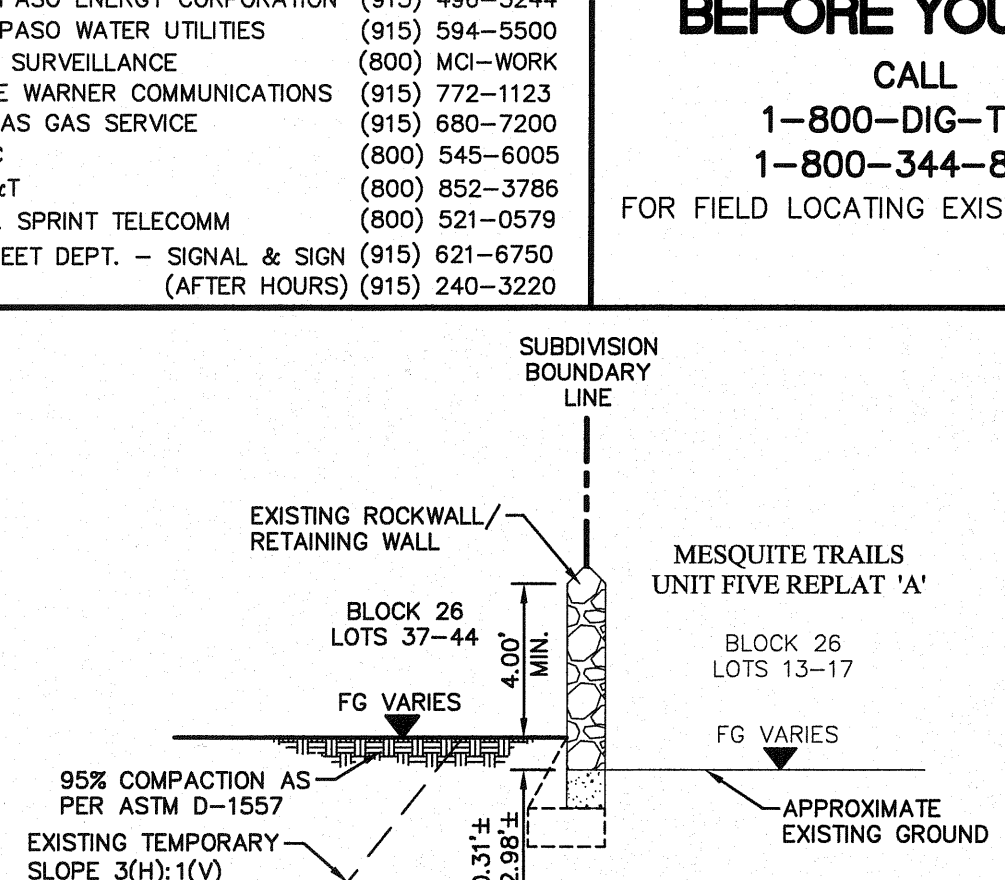
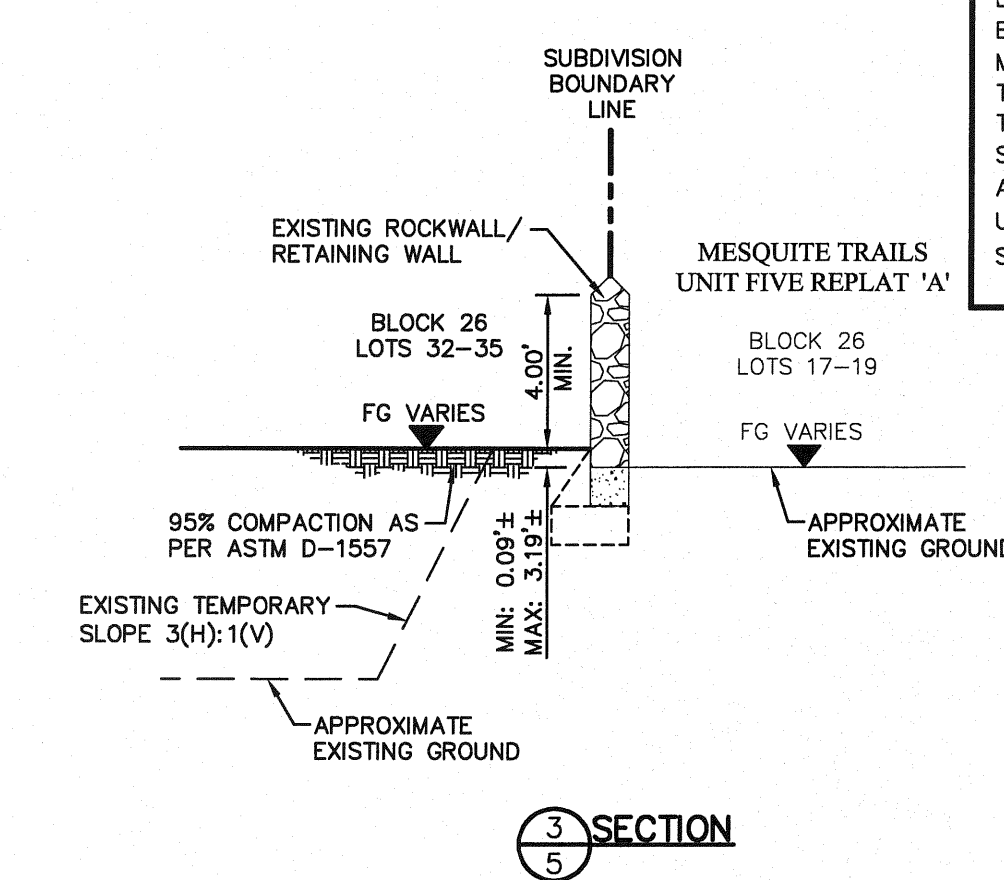
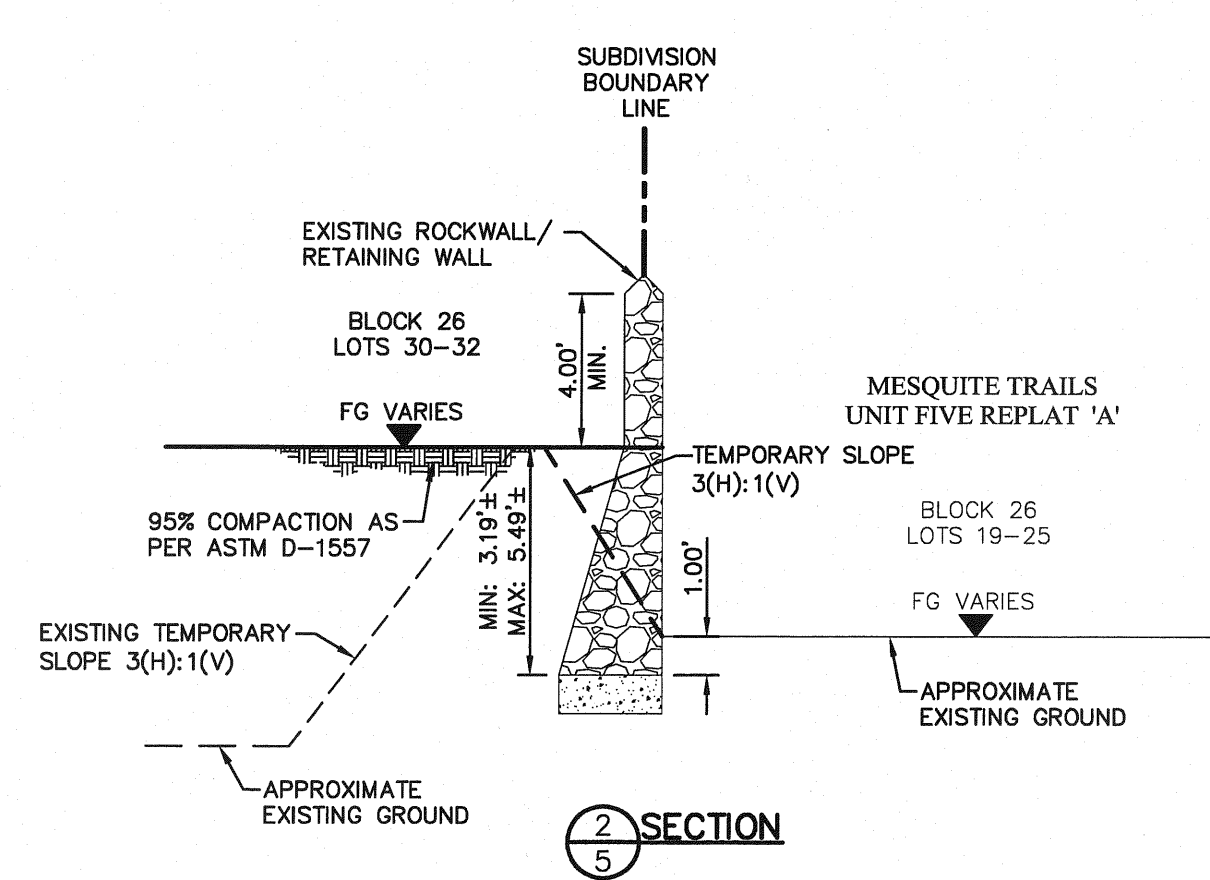
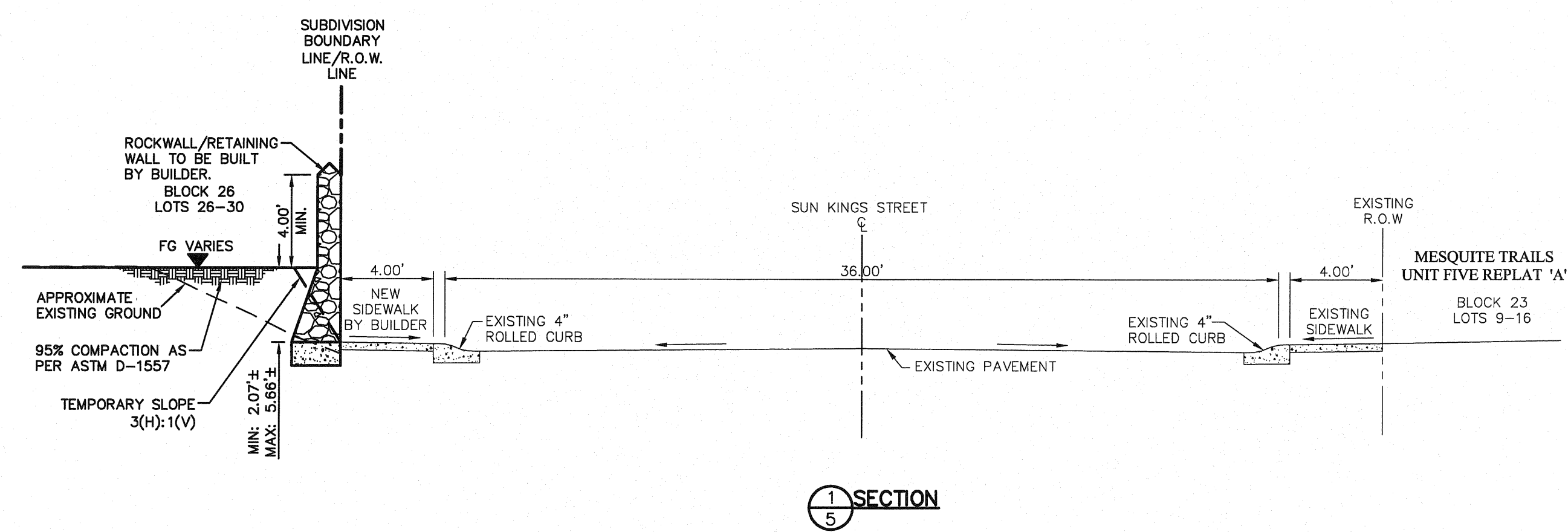
SCALE	
Vertical:	1" = 5'
Horizontal:	N/A
Contour Interval:	N/A
DATE:	JUNE 2010
DESIGN BY:	F.Z.
DRAWN BY:	J.M.
CHKD. BY:	J.L.A.
APPRD. BY:	J.L.A.
JOB NO.	2000-117-1D

PROJECT NAME
MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS

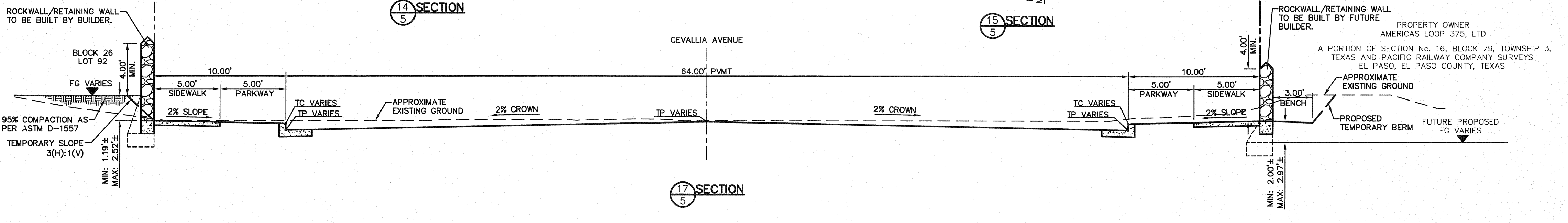
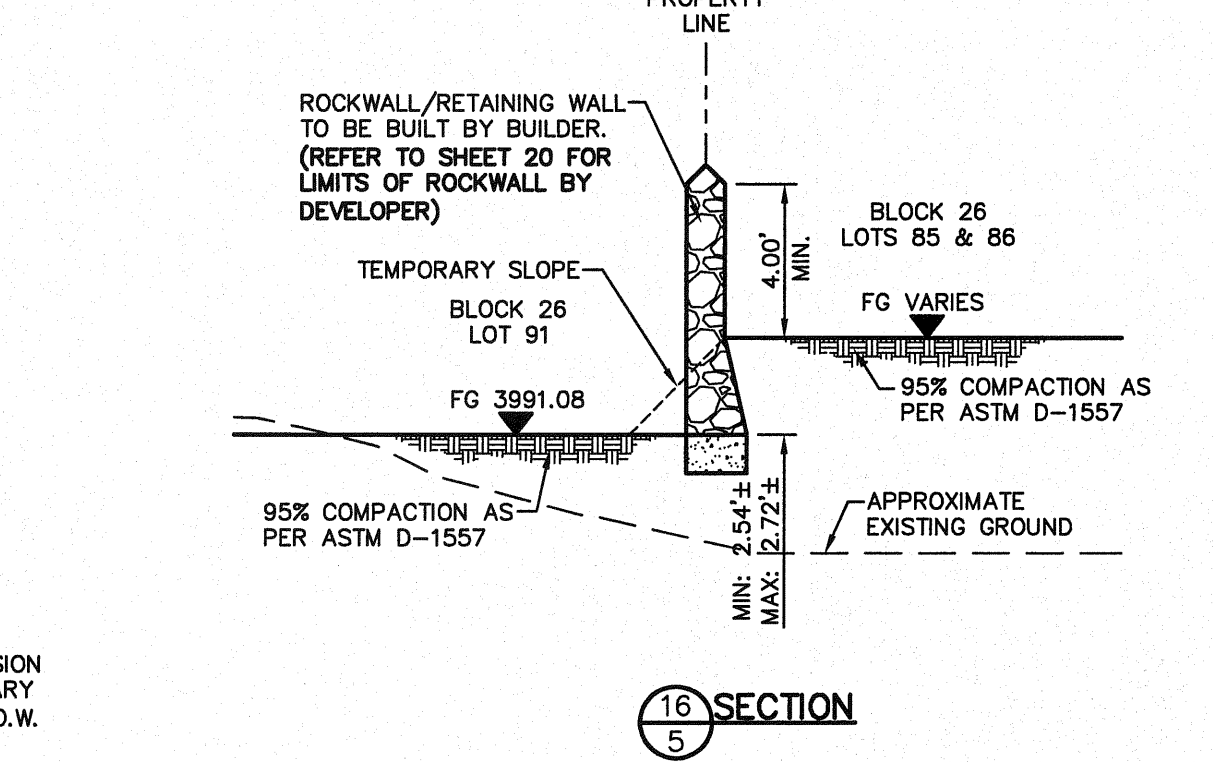
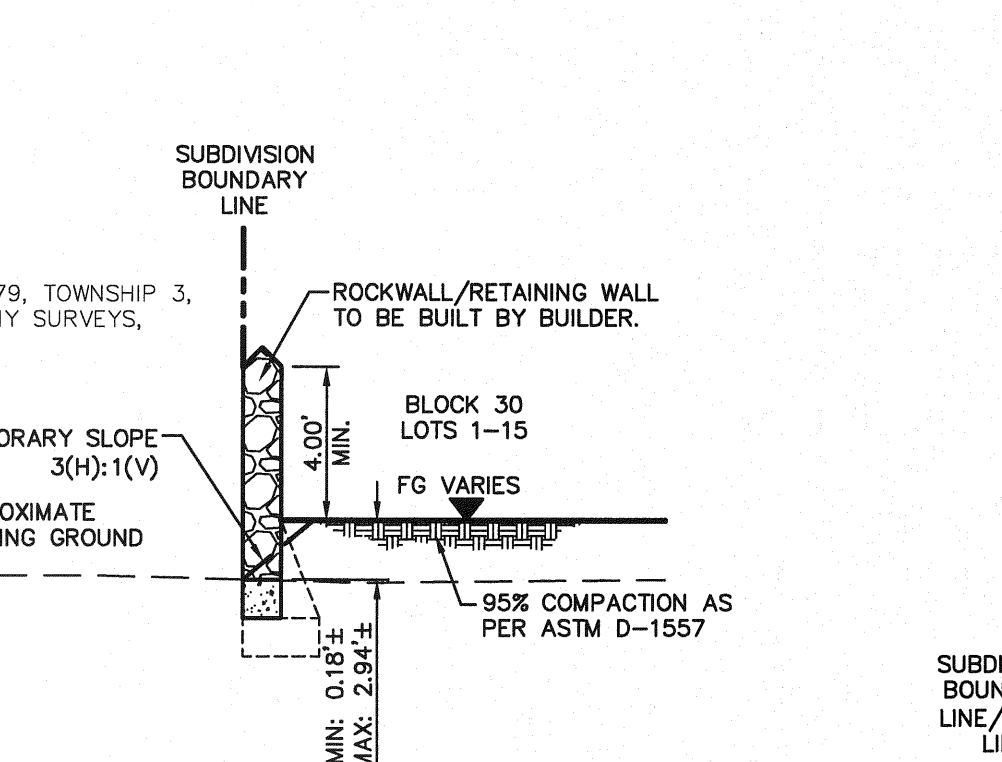
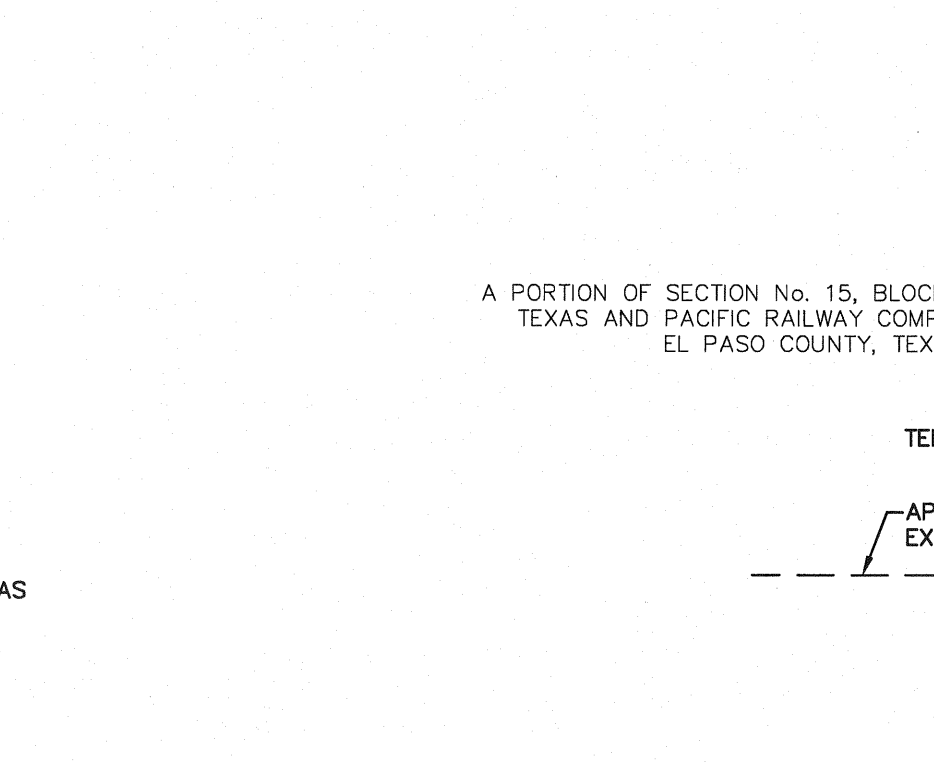
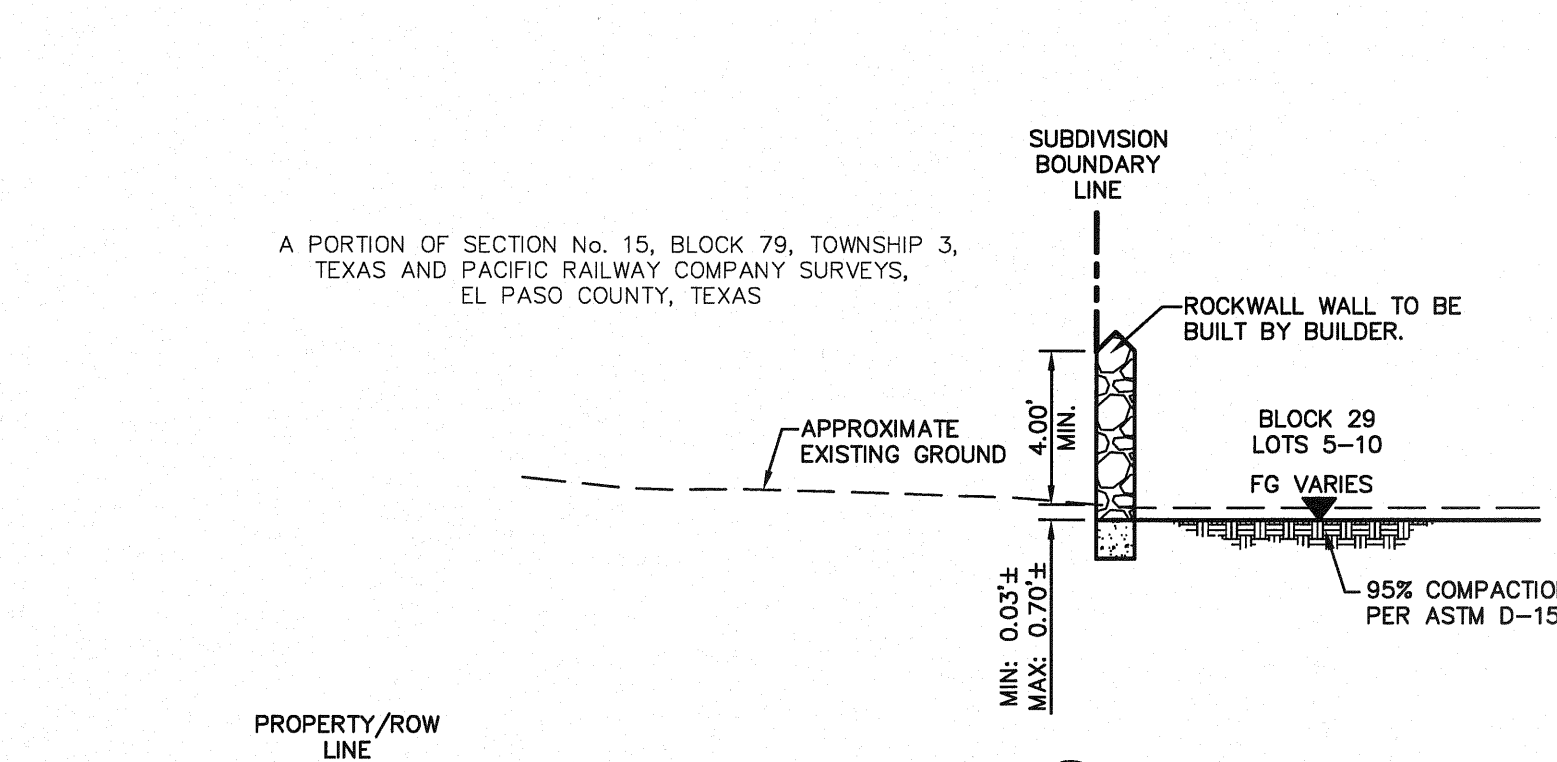
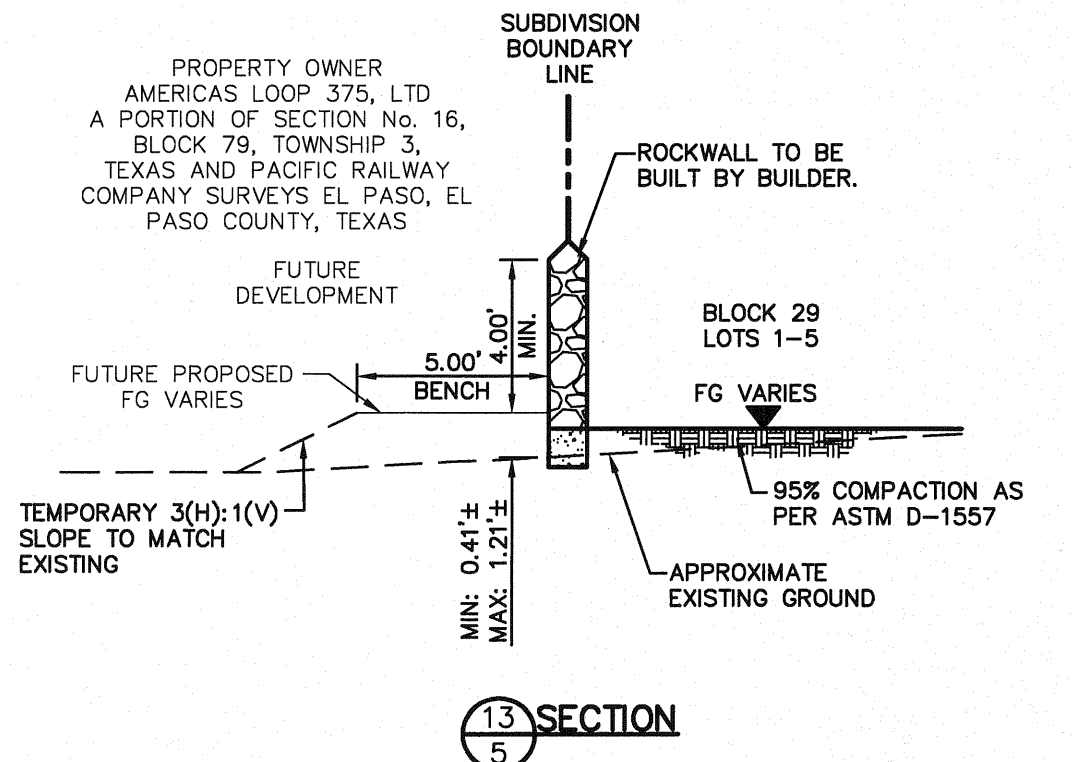
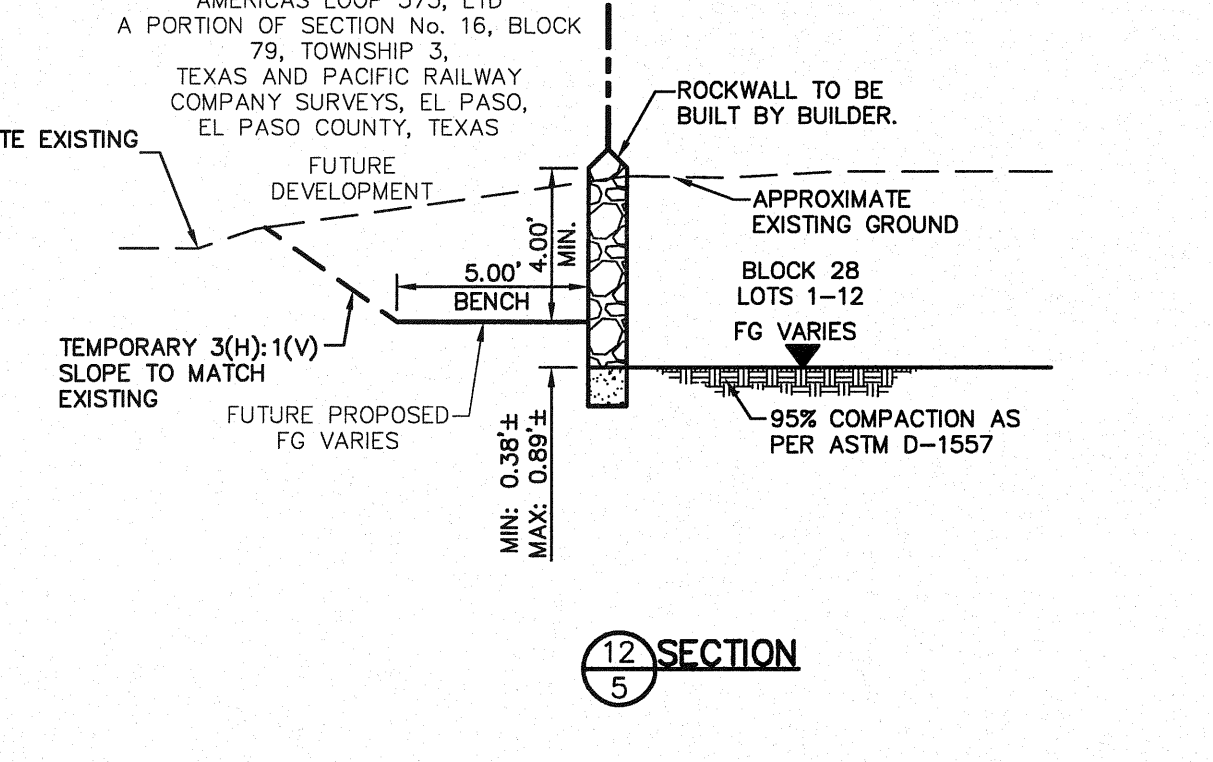
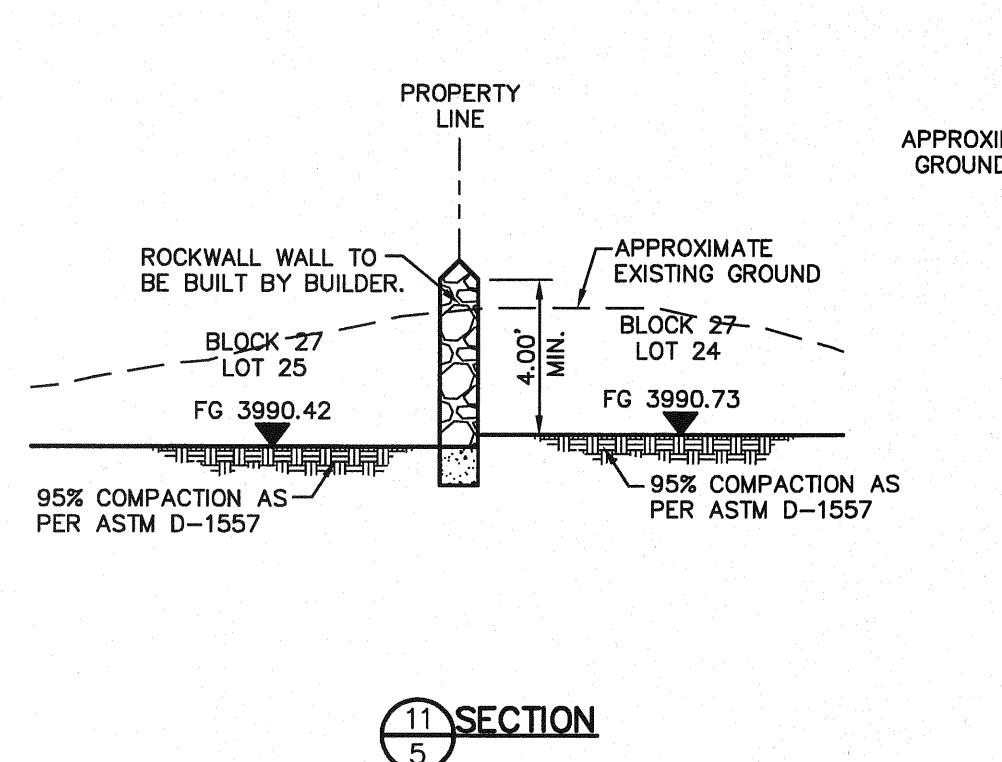
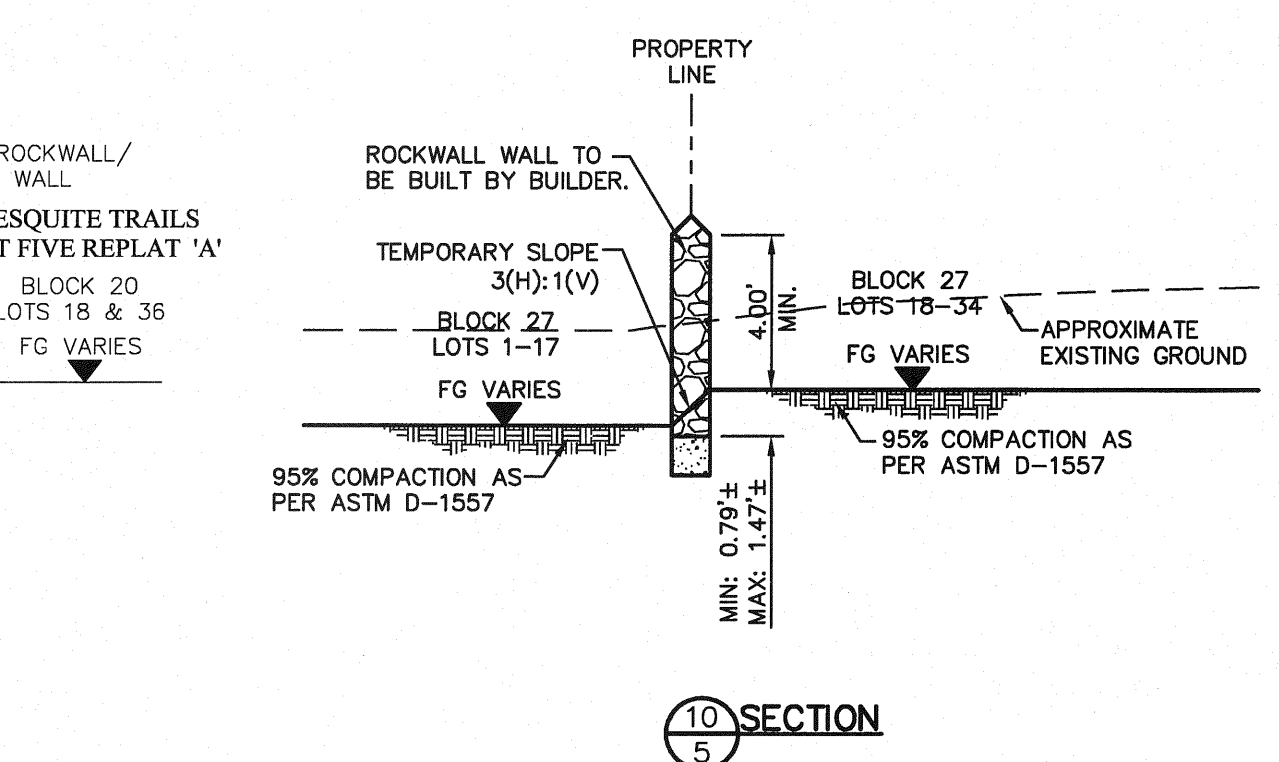
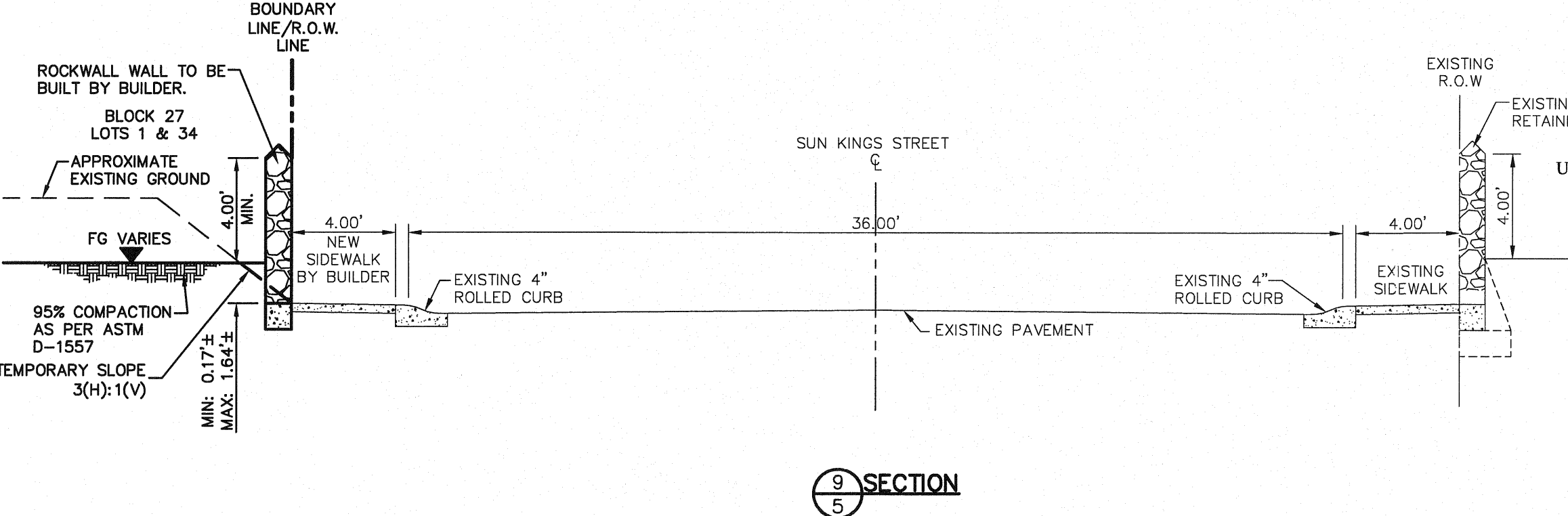
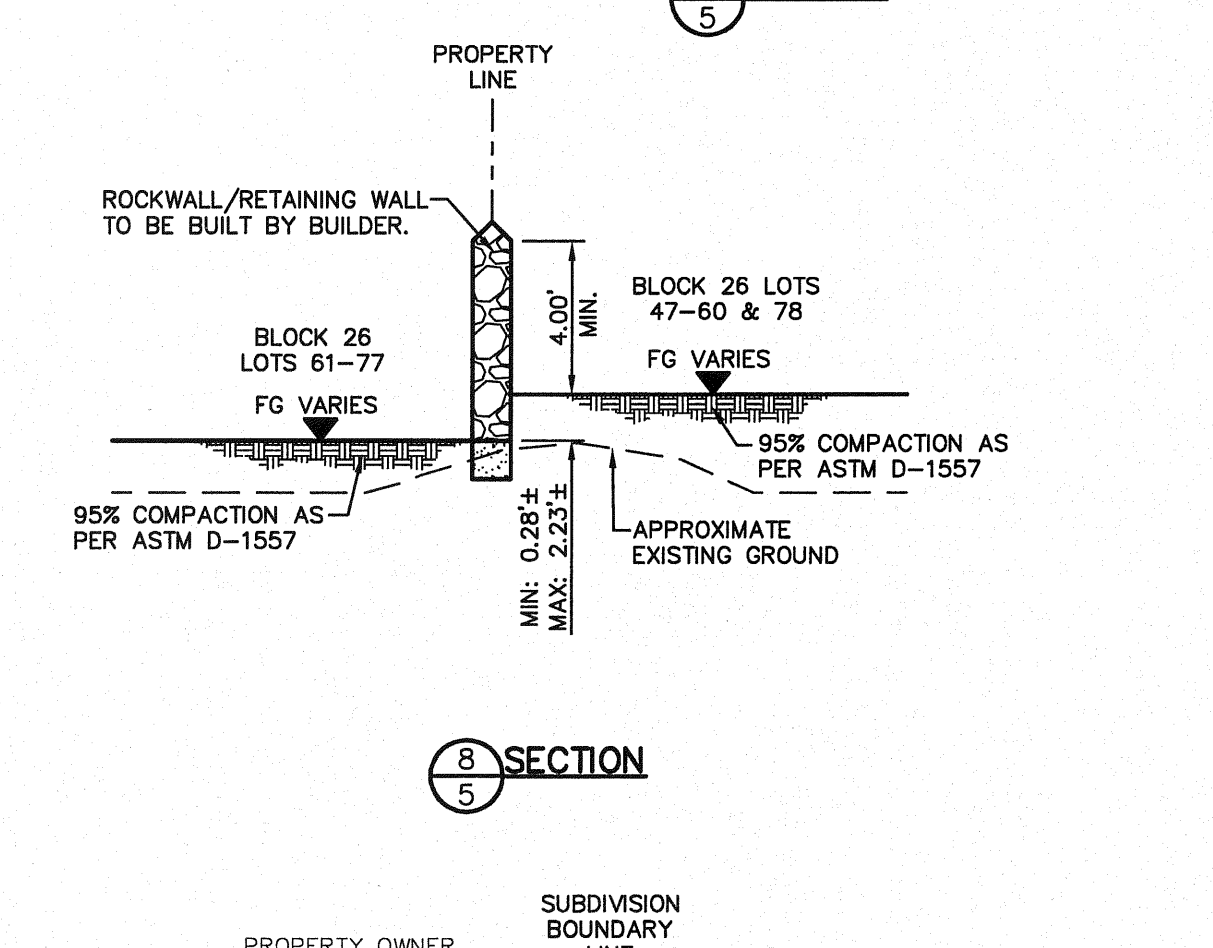
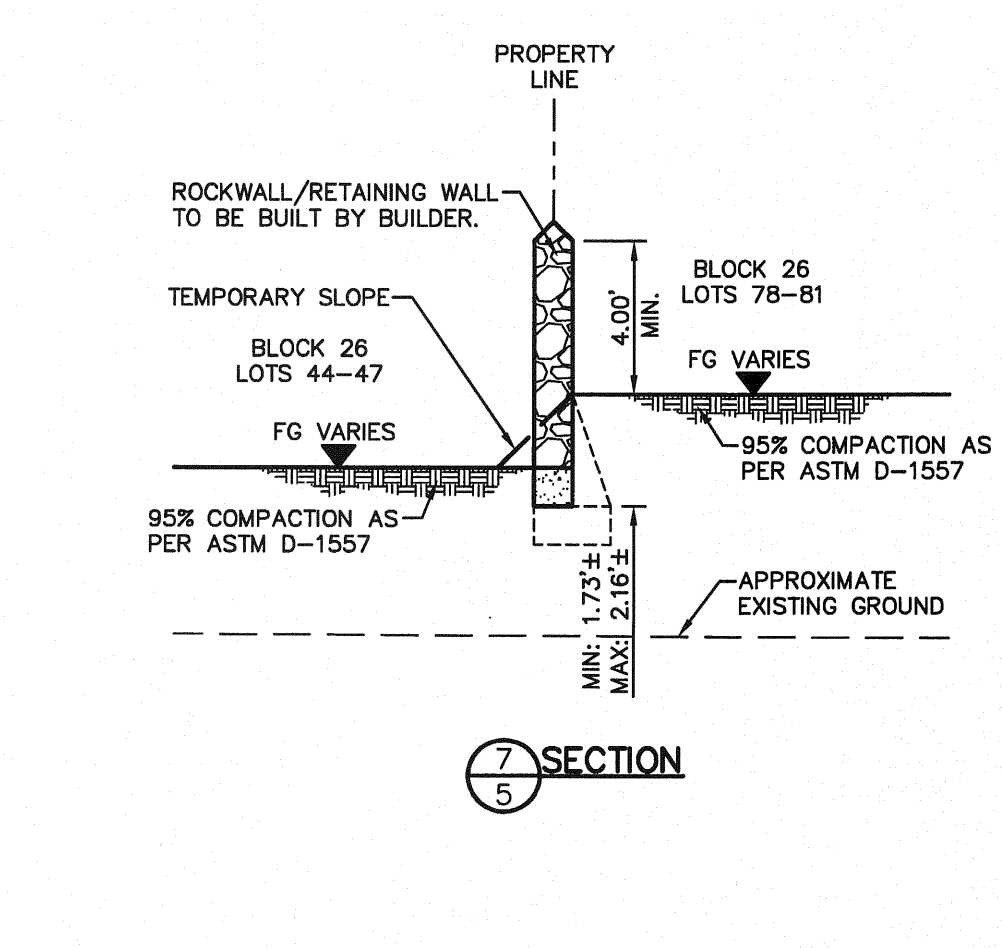
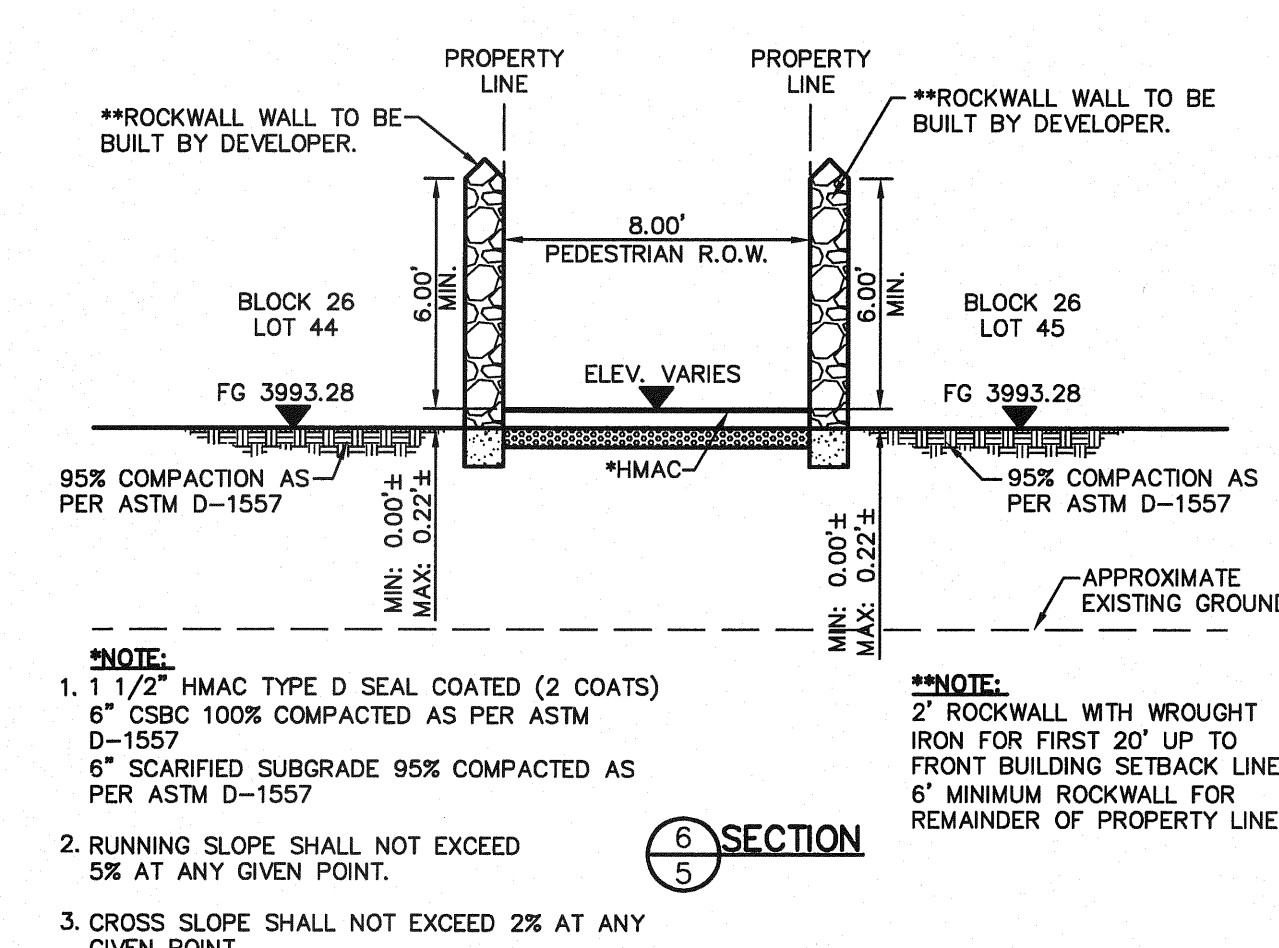
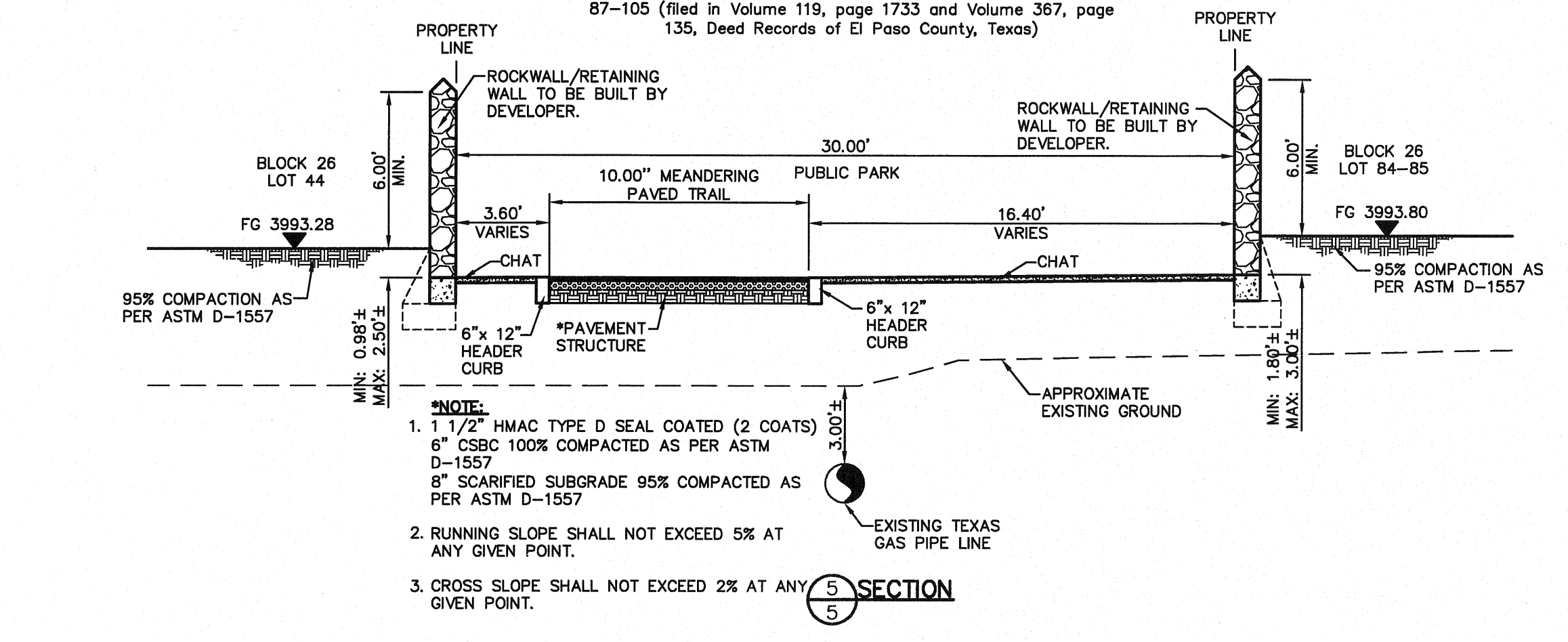
SHEET TITLE
 GRADING SECTIONS

SHEET NO.
 5

OF 24



Approximate location of an Unlocated Pipeline Easement (Southern Union Gas Co.) General Land Office file Miscellaneous Easement No. 87-105 (filed in Volume 119, page 1233 and Volume 387, page 135, Deed Records of El Paso County, Texas)



UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 SBC (800) 545-6005
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 STREET DEPT. - SIGNAL & SIGN (915) 621-6750
 (AFTER HOURS) (915) 240-3220

WARNING!
BEFORE YOU DIG

CALL
 1-800-DIG-TESS
 1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

CS&A

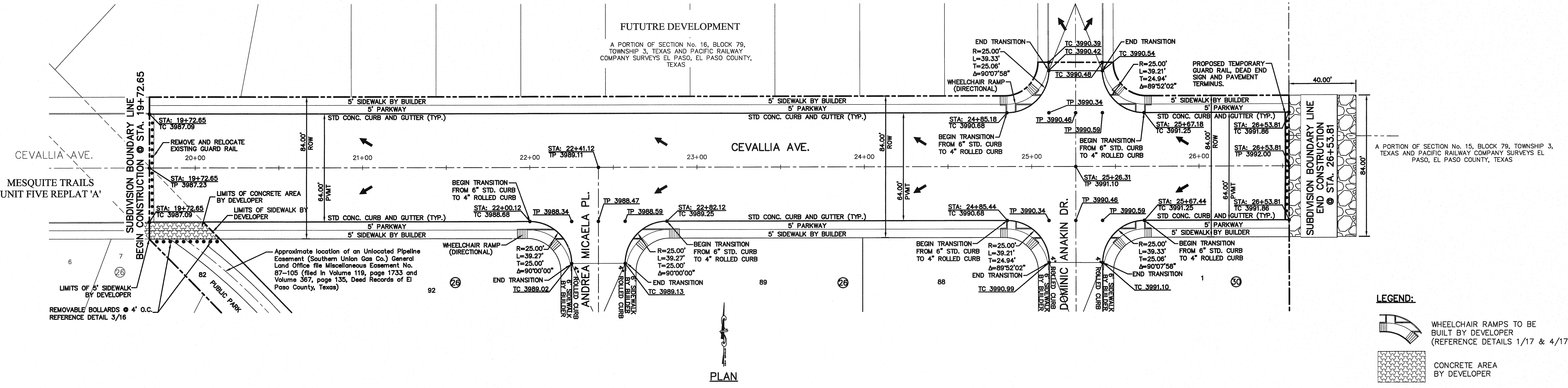
engineers • architects • planners

TEXAS REGISTERED ENGINEERING FIRM F-4684

4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915-544-5252 Fax: 915-544-5253 www.csandamp.com

ENGINEER'S SEAL

JORGE L. AZARATE
 86075

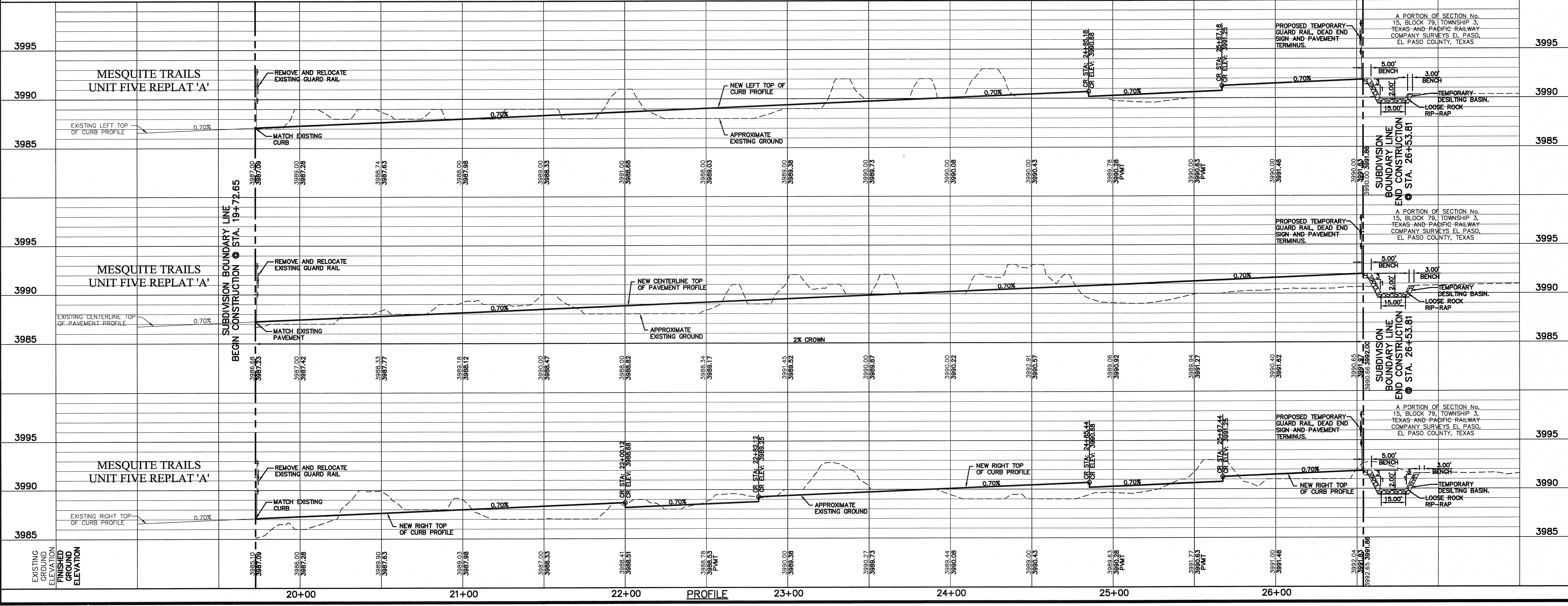


PLAN

LEGEND:

WHEELCHAIR RAMPS TO BE BUILT BY DEVELOPER (REFERENCE DETAILS 1/17 & 4/17)

CONCRETE AREA BY DEVELOPER



PROFILE

SCALE: Horizontal: 1" = 30'
 Vertical: 1" = 5'
 Contour Interval: 5'

DATE: JUNE 2010
 DESIGN BY: F.Z.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.

JOB No. 2000-117-LD

PROJECT NAME

**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

CEVALLIA AVE
 PLAN & PROFILE
 FROM STA. 19+72.65
 TO STA. 26+53.81

SHEET NO.

6

OF 24

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750 (AFTER HOURS) (915) 240-3220

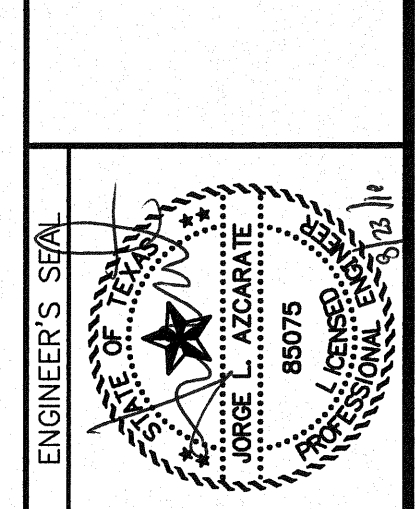
WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).



SCALE: 1"=30'
Horizontal: 1"=50'
Vertical: 1"=10'
Contour Interval: 1/4"

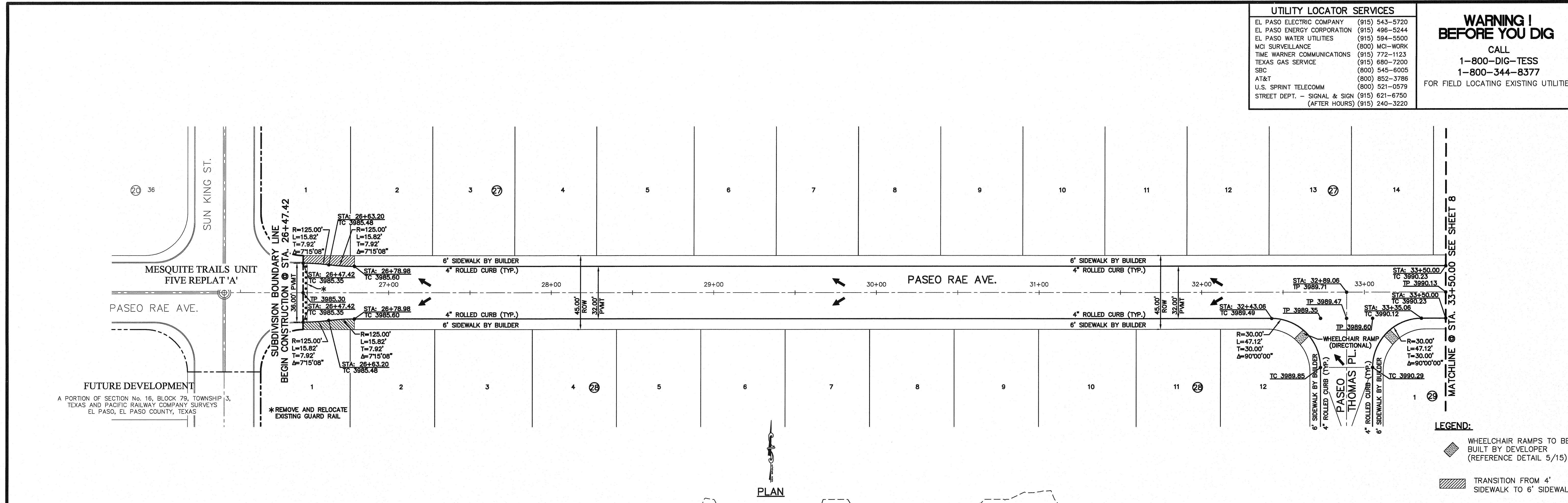
DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

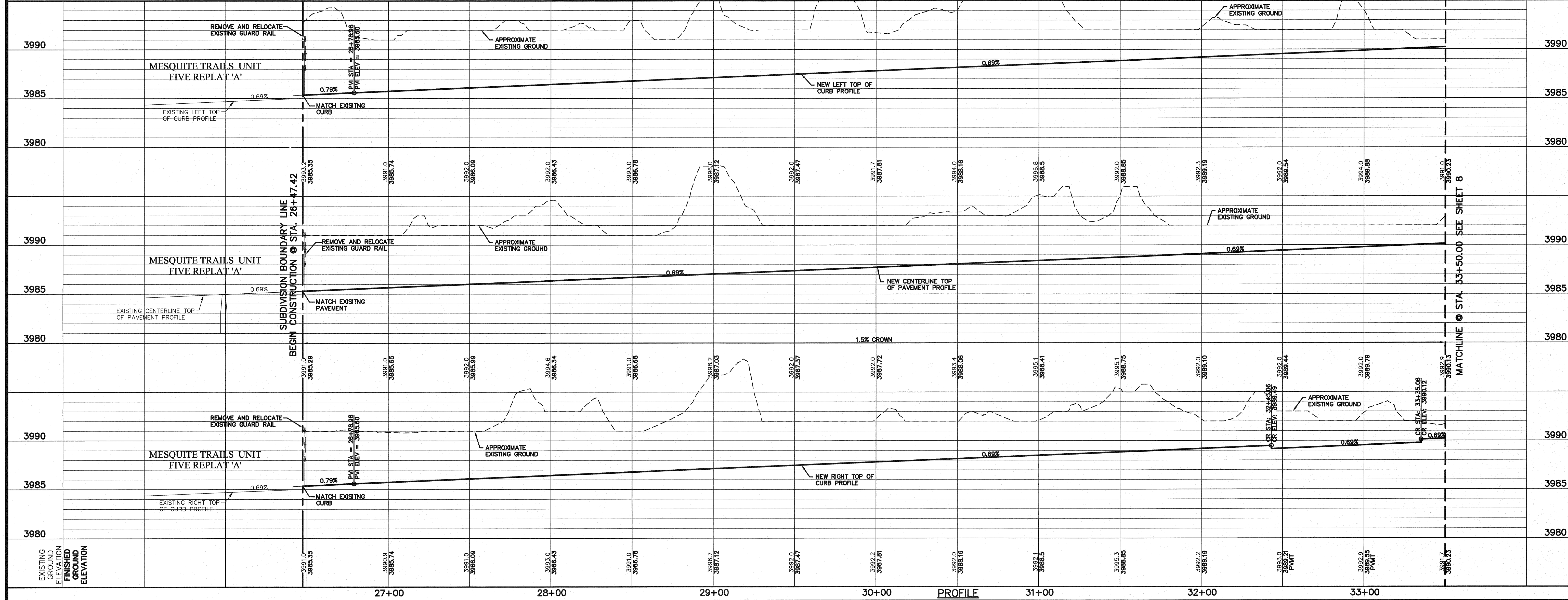
SHEET TITLE
**PASEO RAE AVE.
PLAN & PROFILE
FROM STA. 26+47.42
TO STA. 33+50.00**

SHEET NO.
7

OF 24



PLAN



PROFILE

- LEGEND:**
- WHEELCHAIR RAMPS TO BE BUILT BY DEVELOPER (REFERENCE DETAIL 5/15)
 - TRANSITION FROM 4' SIDEWALK TO 6' SIDEWALK

MATCHLINE @ STA. 33+50.00 SEE SHEET 8

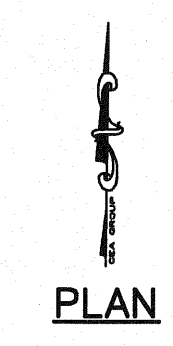
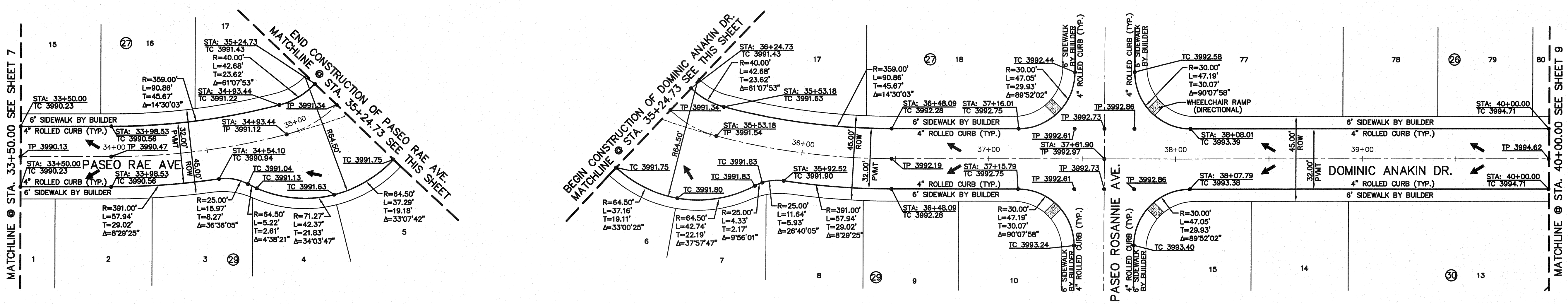
FUTURE DEVELOPMENT
A PORTION OF SECTION No. 16, BLOCK 79, TOWNSHIP 13, TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS
EL PASO, EL PASO COUNTY, TEXAS

* REMOVE AND RELOCATE EXISTING GUARD RAIL

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SDC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
	(AFTER HOURS) (915) 240-3220

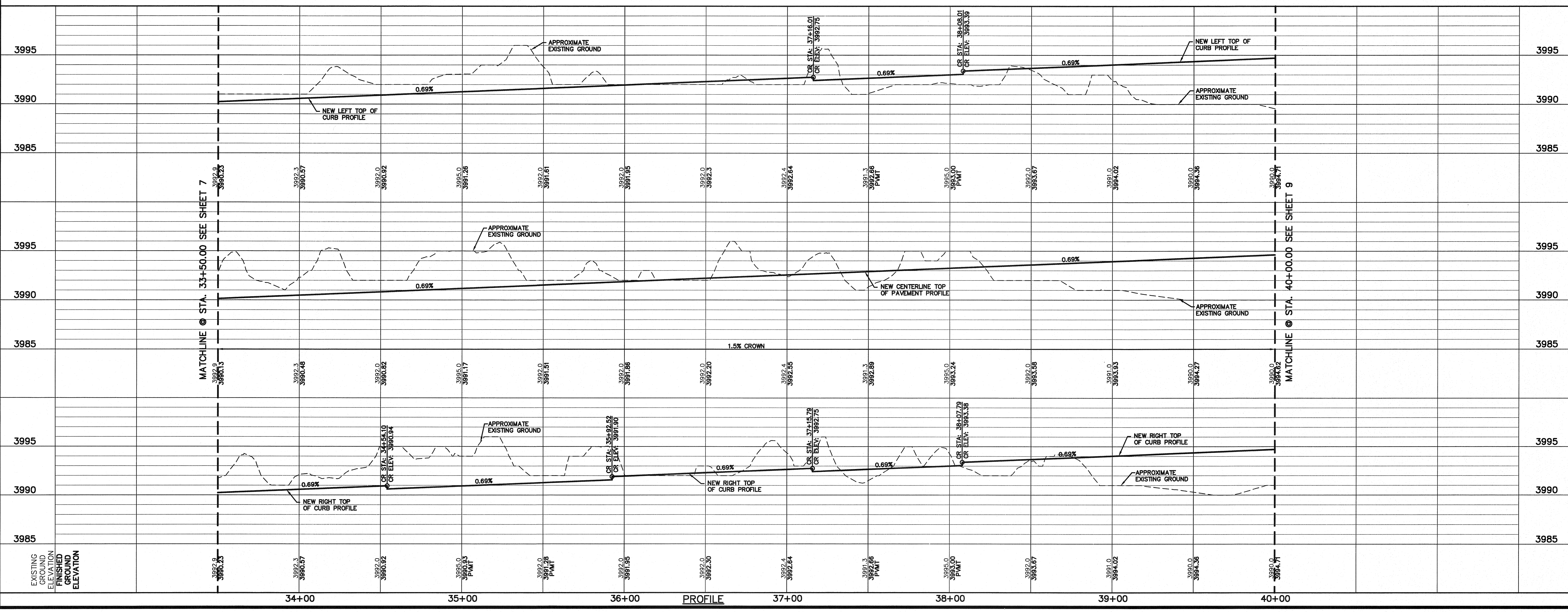
WARNING!
BEFORE YOU DIG
 CALL
1-800-DIG-TESS
1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY



PLAN

LEGEND:
 WHEELCHAIR RAMPS TO BE BUILT BY DEVELOPER (REFERENCE DETAIL 5/15)



SCALE	
Horizontal: 1"=30'	
Vertical: 1"=5'	
Contour Interval: N/A	
DATE: JUNE 2010	DESIGN BY: F.Z.
	DRAWN BY: J.M.
	CHKD. BY: J.L.A.
	APP'D. BY: J.L.A.
	JOB No. 2000-117-ID

PROJECT NAME

**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

PASEO RAE AVE.
 PLAN & PROFILE
 FROM STA. 33+50.00
 TO STA. 35+24.73

DOMINIC ANAKIN DR.
 PLAN & PROFILE
 FROM STA. 35+24.73
 TO STA. 40+00.00

SHEET NO.

08

OF 24

ENGINEER'S SEAL

CS&P
 engineers • architects • planners
 TEXAS REGISTERED ENGINEERING FIRM F-464
 Office: 915.544.5222 Fax: 915.544.5233 www.csandp.com

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM)

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 486-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

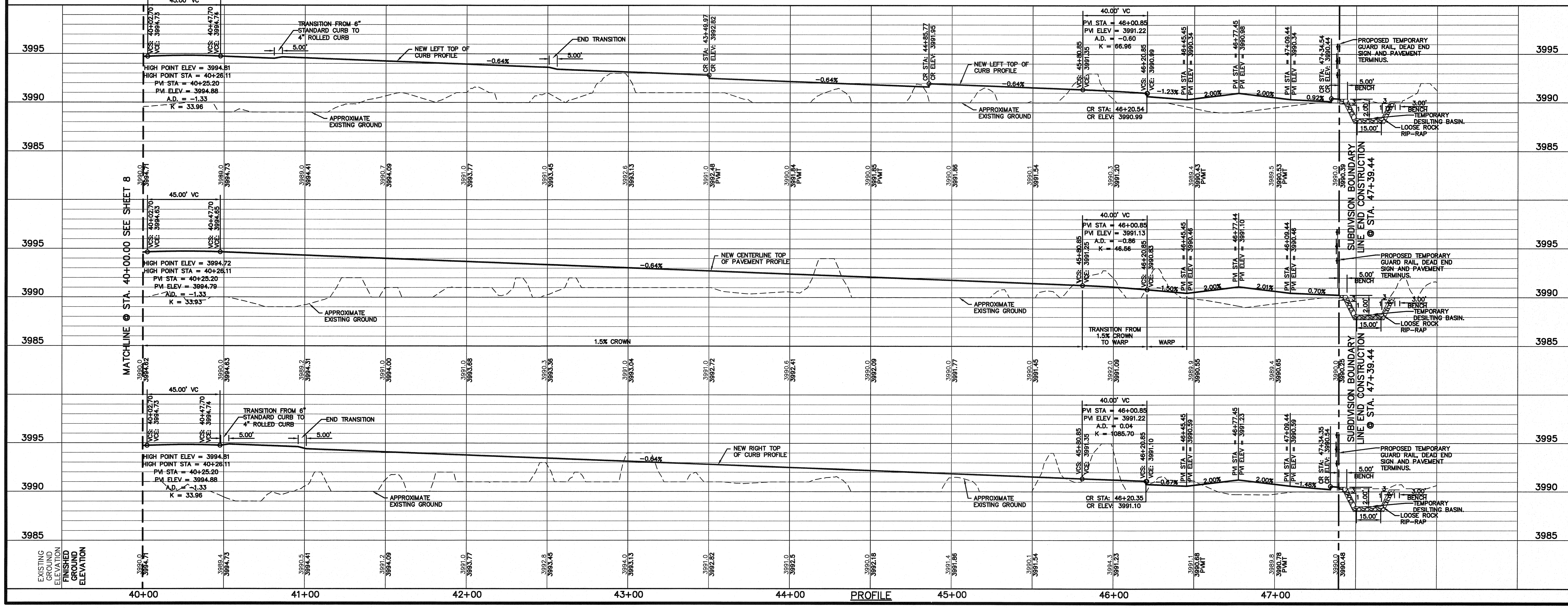
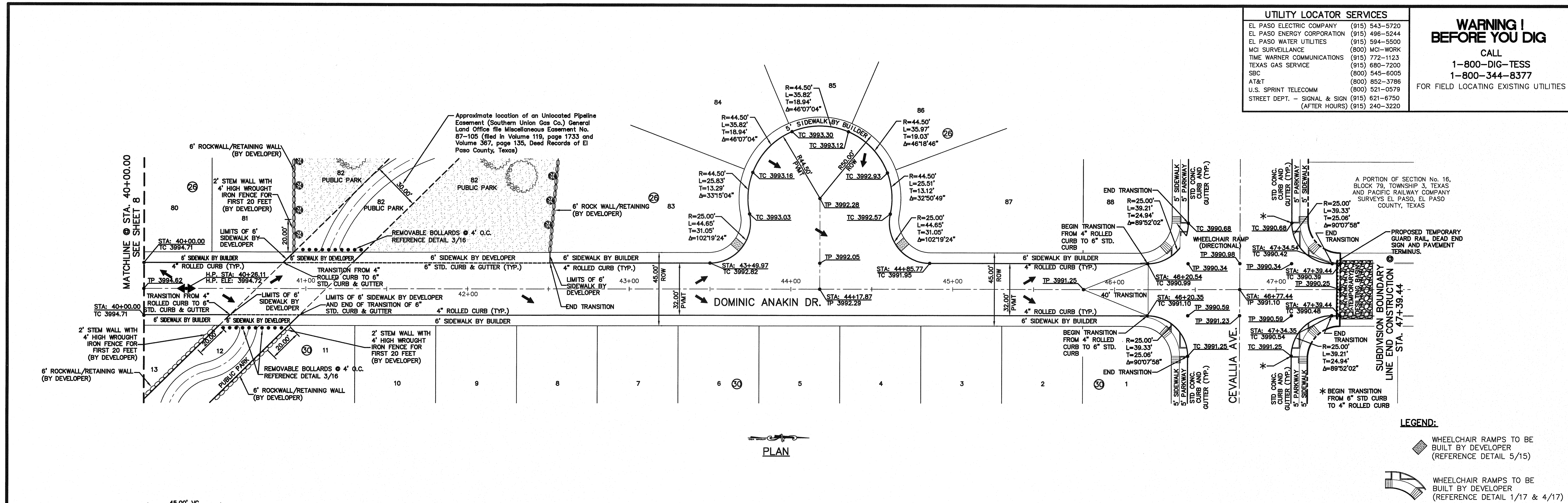
ENGINEER'S SEAL

CS&P GROUP
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-664
4712 Woodrow Bess, Ste. F El Paso, TX 79924
Office: 915.544.5322 Fax: 915.544.5253 www.csandp.com

SCALE	PROJECT NAME
Horizontal: 1" = 30' Vertical: 1" = 5'	MESQUITE TRAILS UNIT SIX SUBDIVISION IMPROVEMENTS

DATE	DESIGN BY	CHKD. BY	APPVD. BY
JUNE 2010	F.Z.	J.M.	J.L.A.

JOB No. 20000-117-LD



UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

ENGINEER'S SEAL
JOSÉ L. AZCÁRATE
Professional Engineer
No. 88075
State of Texas

SCALE: Horizontal: 1"=50'
Vertical: 1"=5'
Contour Interval: N/A

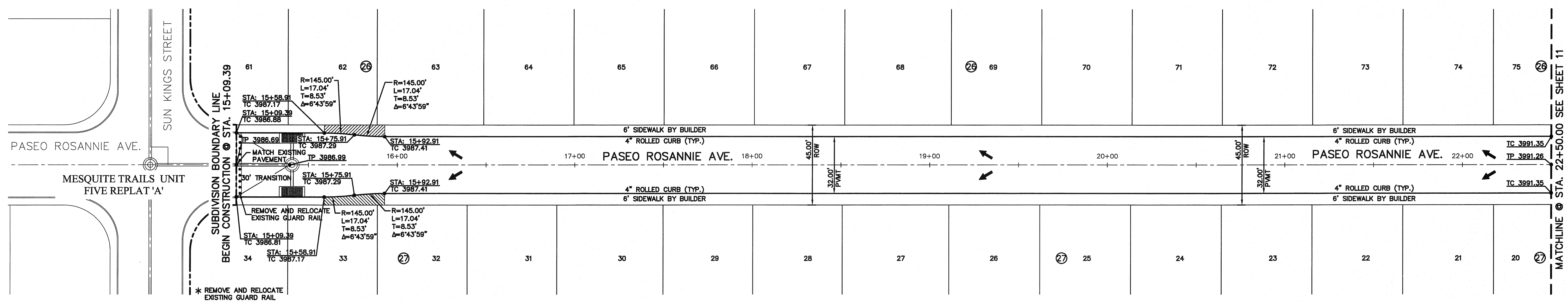
DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**PASEO ROSANNIE AVE.
PLAN & PROFILE
FROM STA. 15+09.39
TO STA. 22+50.00**

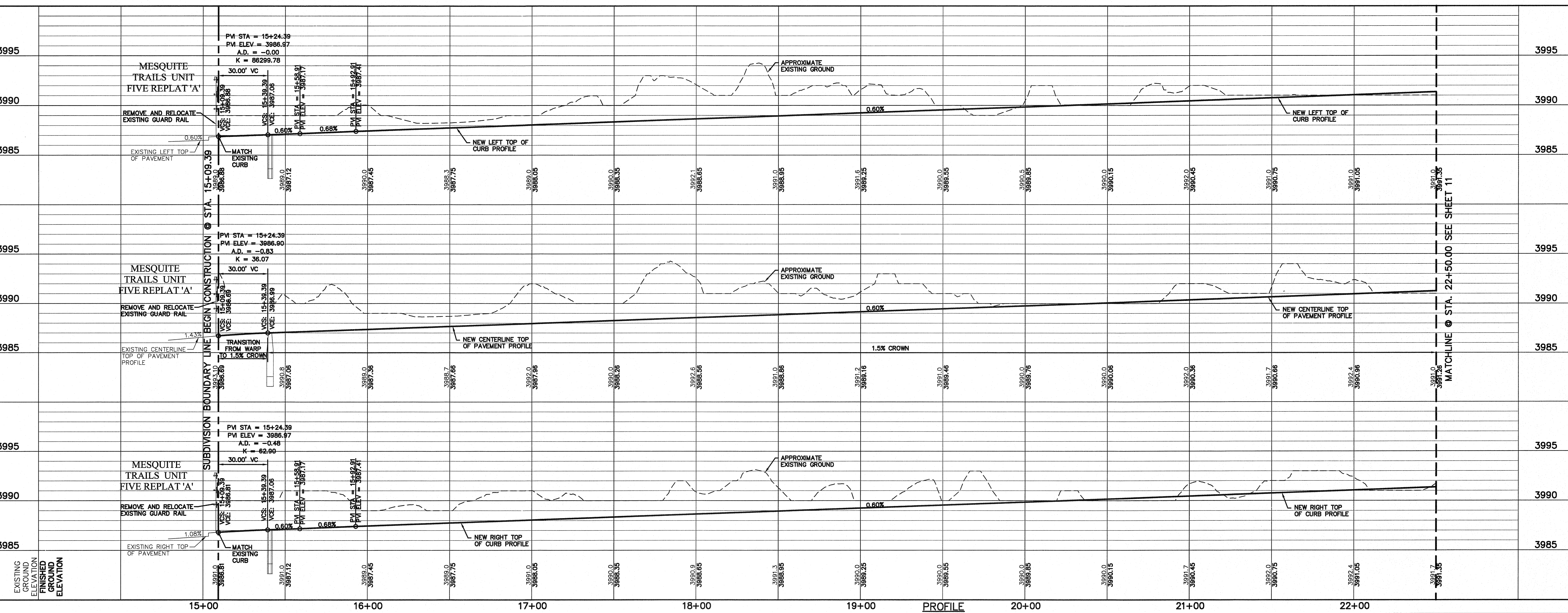
SHEET NO.
10

OF 24



PLAN

LEGEND:
[Hatched Box] TRANSITION FROM 4' SIDEWALK TO 6' SIDEWALK



UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SEC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750 (AFTER HOURS) (915) 240-3220

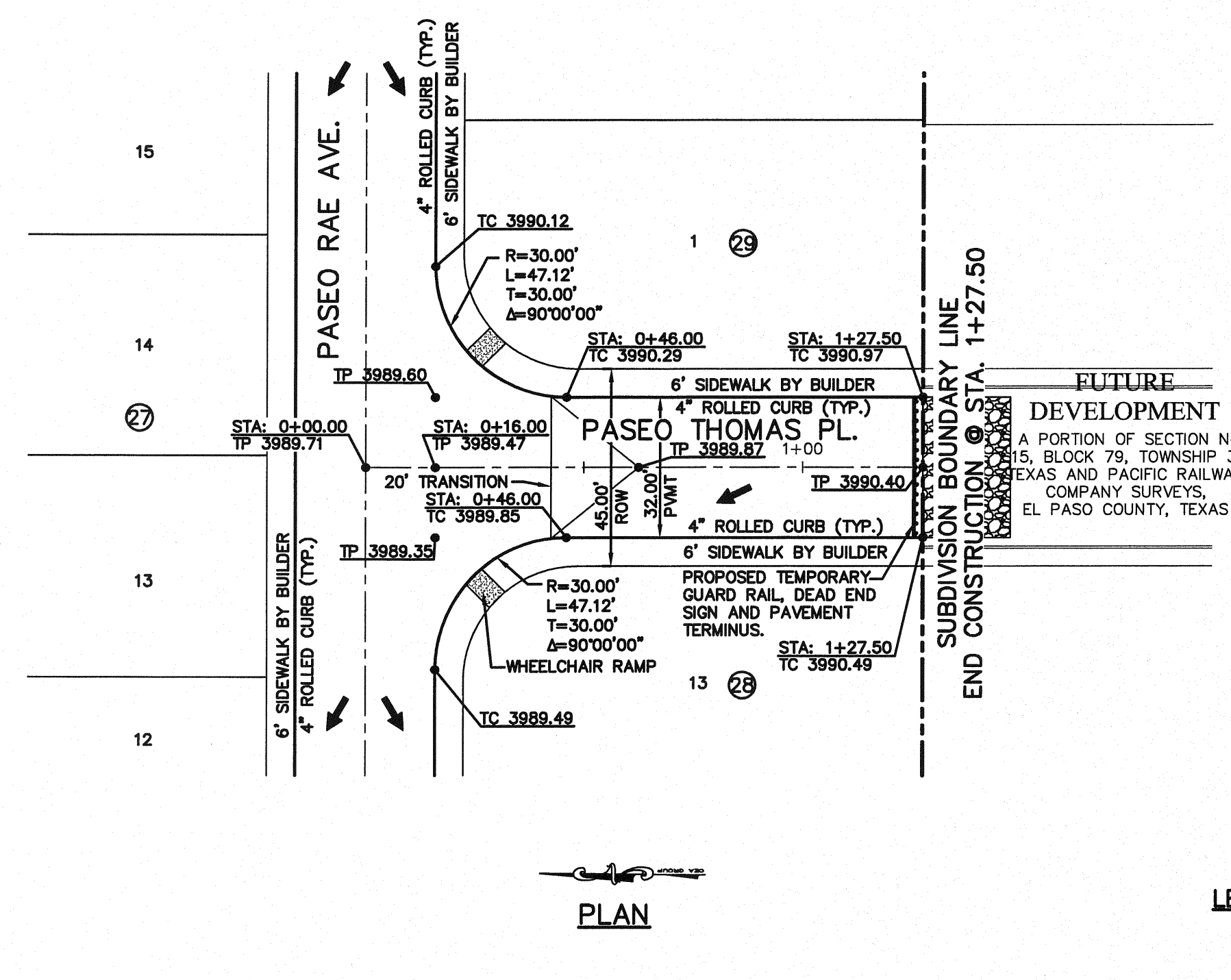
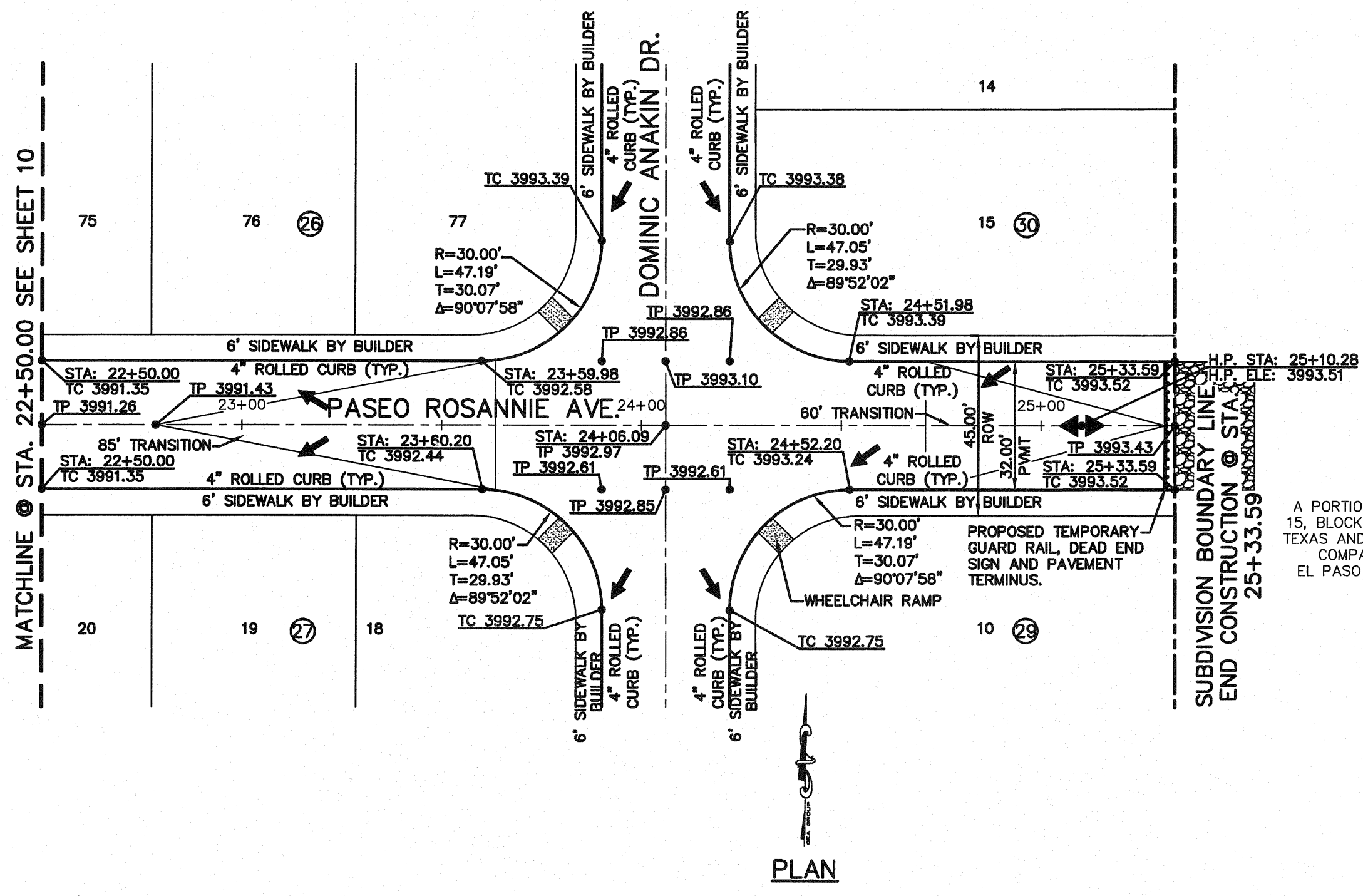
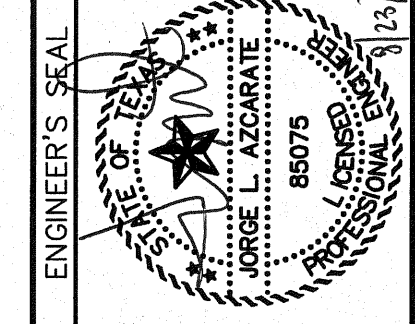
WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

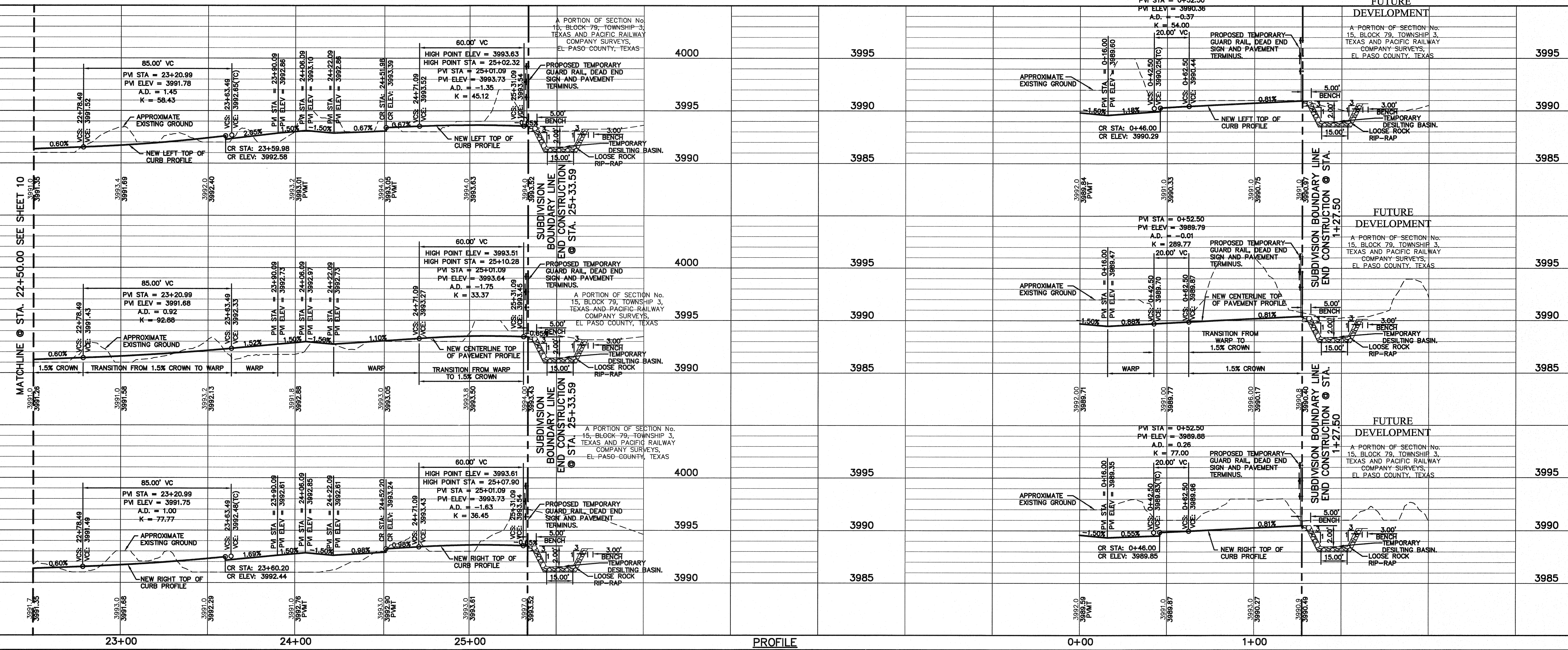
DATE	REVISIONS	BY

CS&P
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM #4684
4712 Woodrow Bann, Ste. F, El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.csandp.com



PLAN

LEGEND:
WHEELCHAIR RAMP TO BE BUILT BY DEVELOPER (REFERENCE DETAIL 5/15)



PROFILE

SCALE
Horizontal: 1"=30'
Vertical: 1"=5'
Contour Interval: N/A

DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPD. BY: J.L.A.
JOB No. 2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
PASEO ROSANNIE AVE.
PLAN & PROFILE
FROM STA. 22+50.00
TO STA. 25+33.59

PASEO THOMAS PL.
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 1+27.50

SHEET NO.
11

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7300
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750 (AFTER HOURS) (915) 240-3220

**WARNING !
BEFORE YOU DIG**

CALL
1-800-DIG-TESS
1-800-344-8377

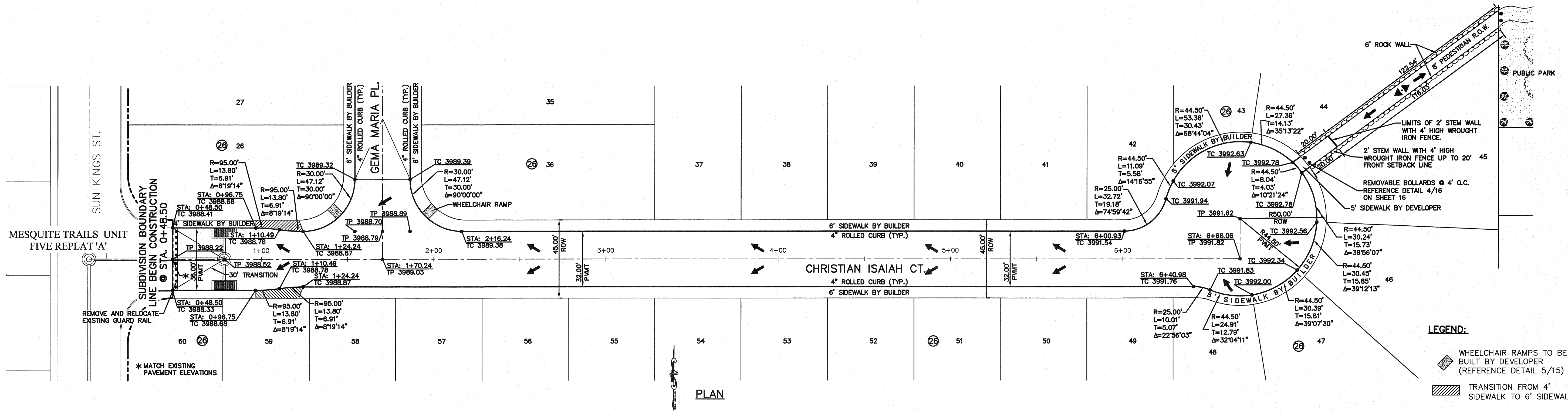
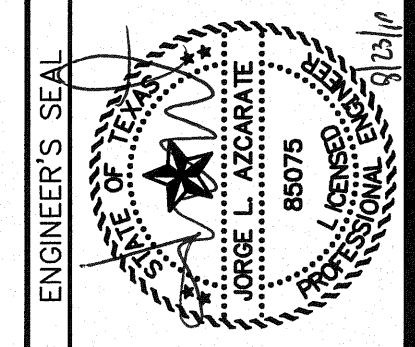
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

CSA

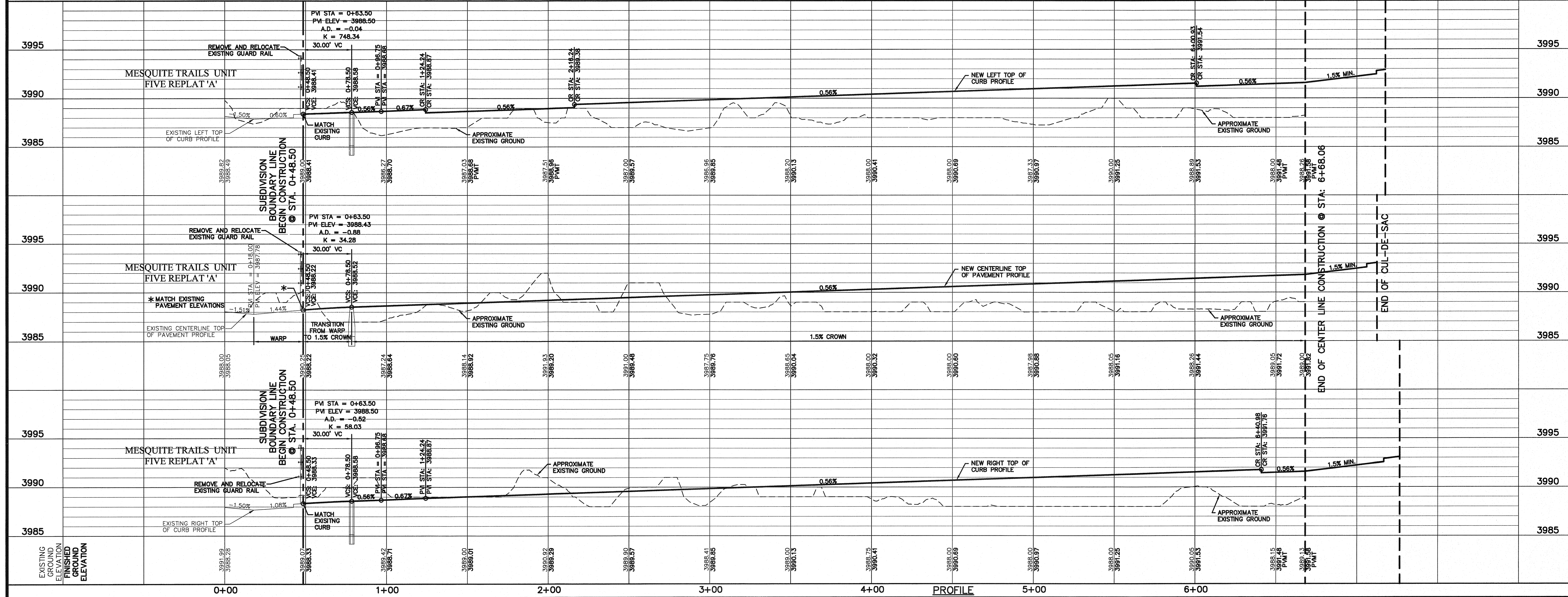
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-6584

4712 Woodrow Bland, Ste. F, El Paso, TX 79924
Office: 915.544.5522 Fax: 915.544.5233 www.csaeng.com



LEGEND:

- WHEELCHAIR RAMPS TO BE BUILT BY DEVELOPER (REFERENCE DETAIL 5/15)
- TRANSITION FROM 4' SIDEWALK TO 6' SIDEWALK



SCALE:
Horizontal: 1" = 30'
Vertical: 1" = 5'
Contour Interval: 5'/A

DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-117-LD

PROJECT NAME

**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**CHRISTIAN ISAAH
CT. PLAN & PROFILE
FROM STA. 0+48.50
TO STA. 6+68.06**

SHEET NO.

12

OF 24

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750 (AFTER HOURS) (915) 240-3220

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

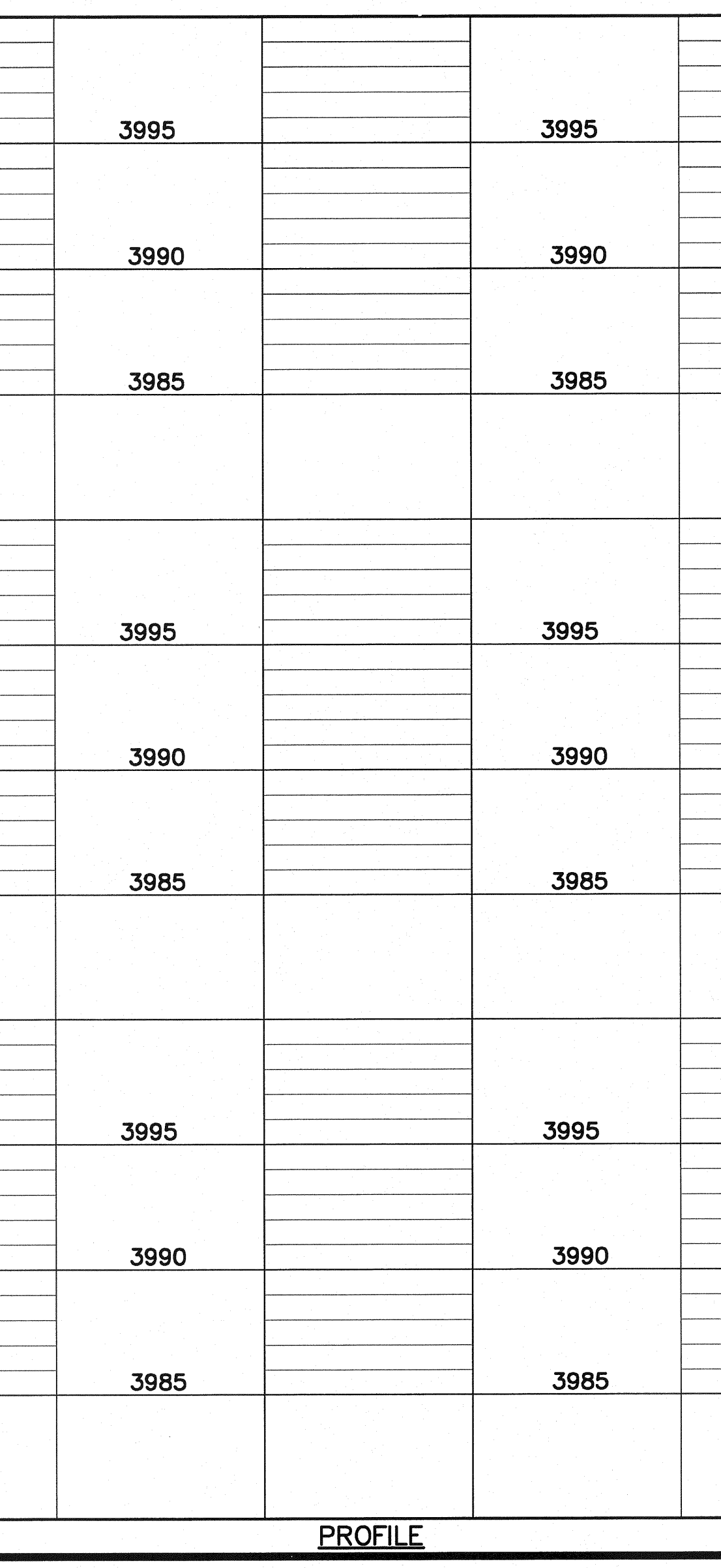
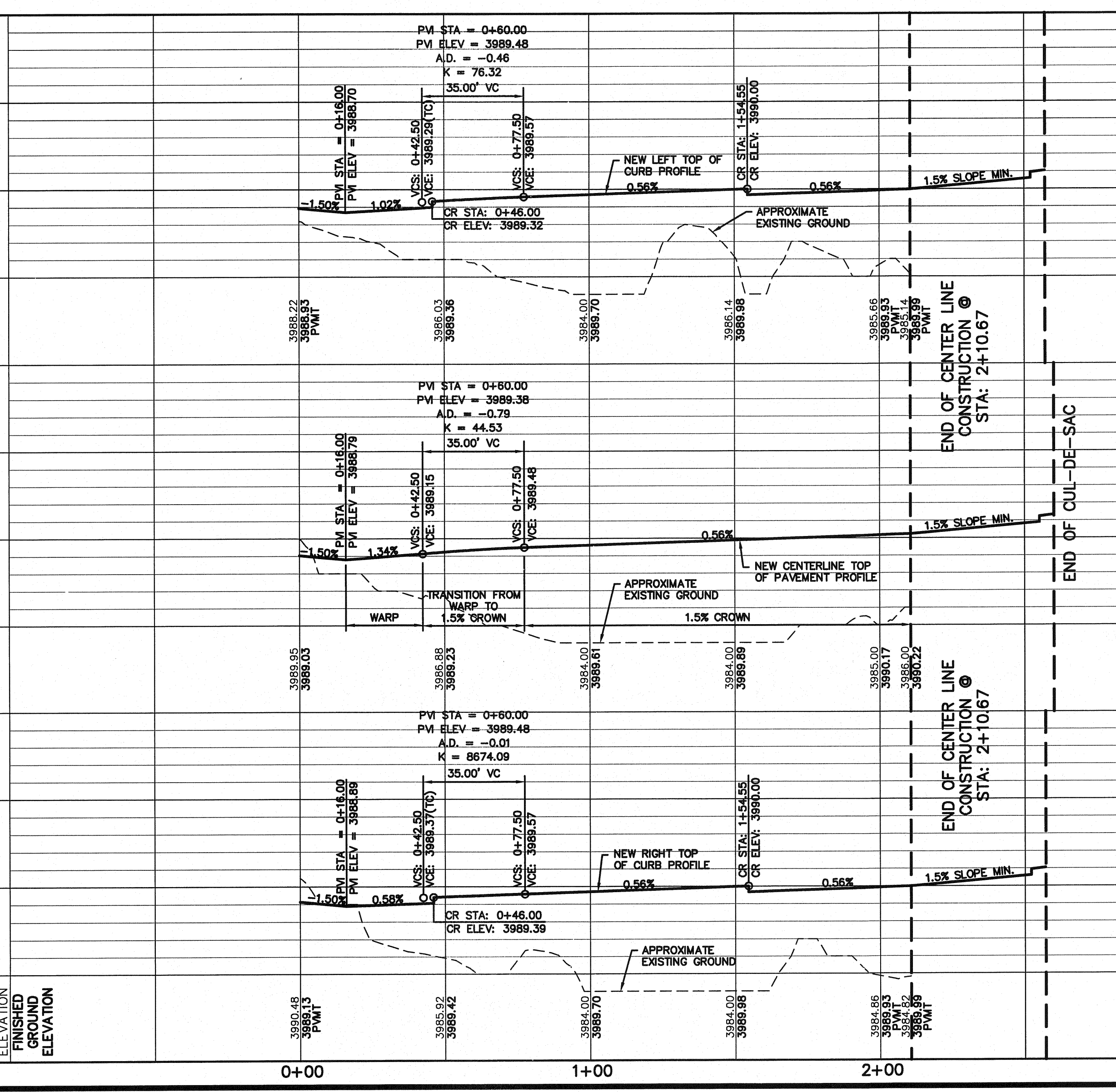
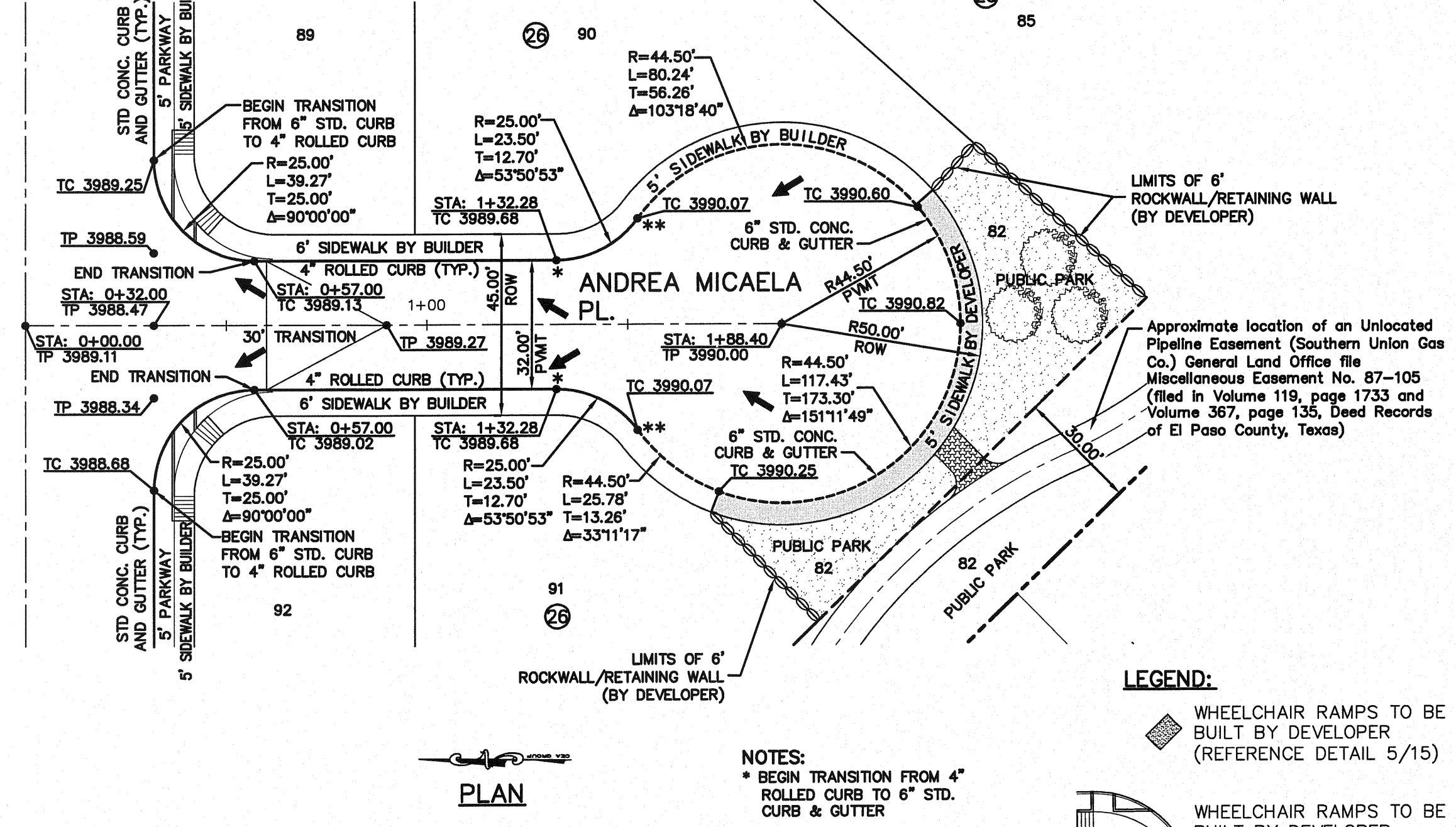
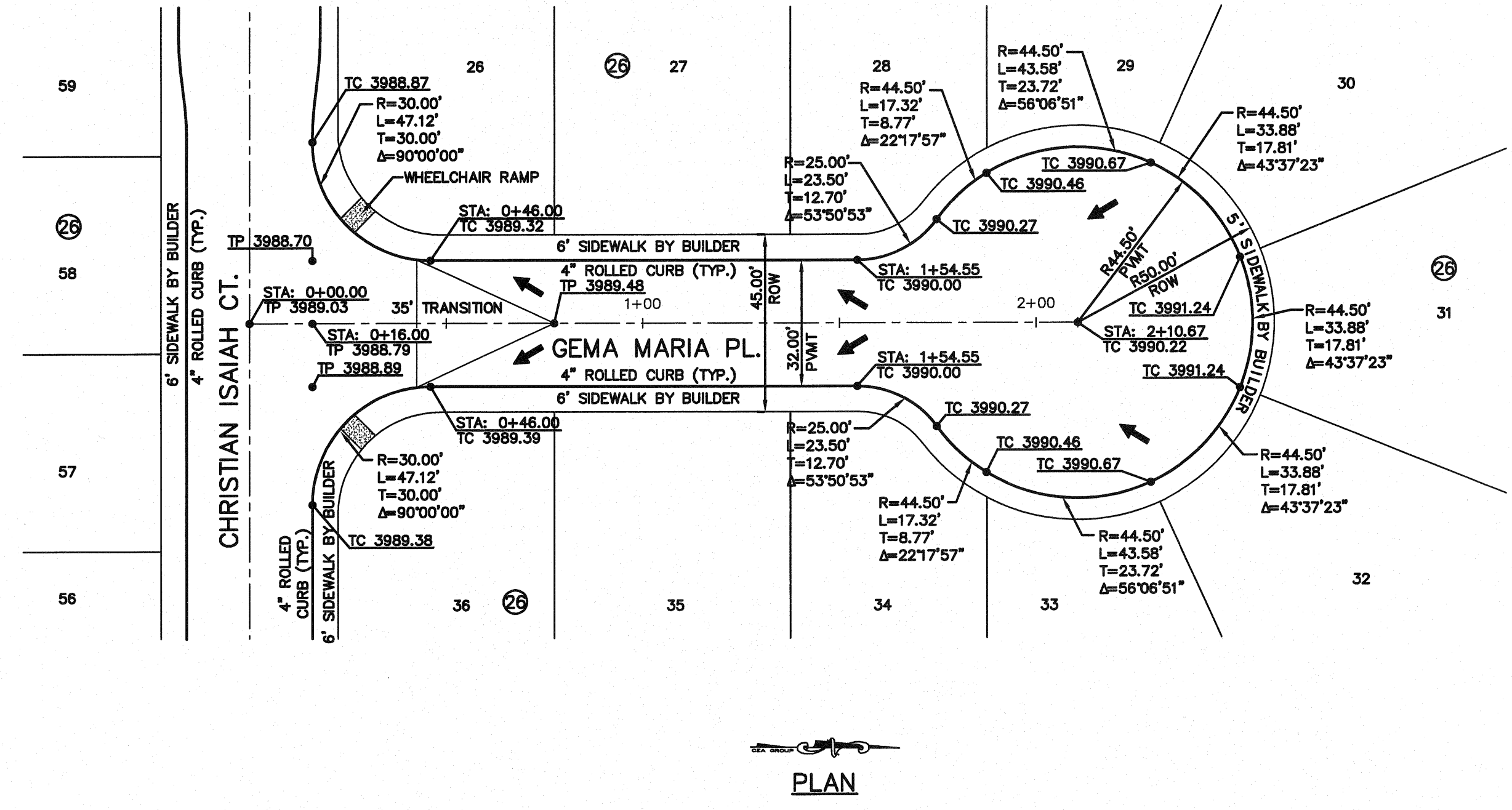
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALFREGE CIRCLE AND PASEO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

CS&U
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM #464
4712 Woodrow Branch, Ste. F, El Paso, TX 79924
Office: 915/244-8222 Fax: 915/244-5252 www.csandu.com

ENGINEER'S SEAL



SCALE: Horizontal: 1"=30'
Vertical: 1"=5'
Contour Interval: 5'/10'

DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
GEMA MARIA PL. PLAN & PROFILE FROM STA. 0+00.00 TO STA. 2+10.67
ANDREA MICAELA PL. PLAN & PROFILE FROM STA. 0+00.00 TO STA. 1+88.40

SHEET NO.
13

OF 24

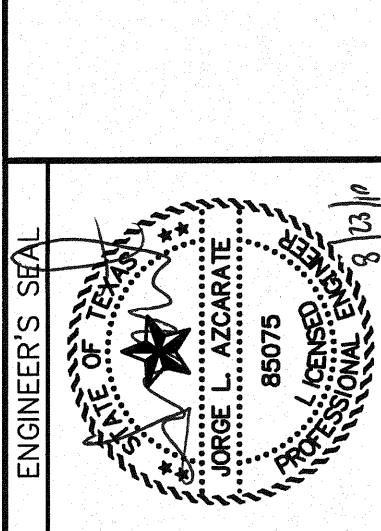
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
	(AFTER HOURS) (915) 240-3220

WARNING!
BEFORE YOU DIG
 CALL
1-800-DIG-TESS
1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

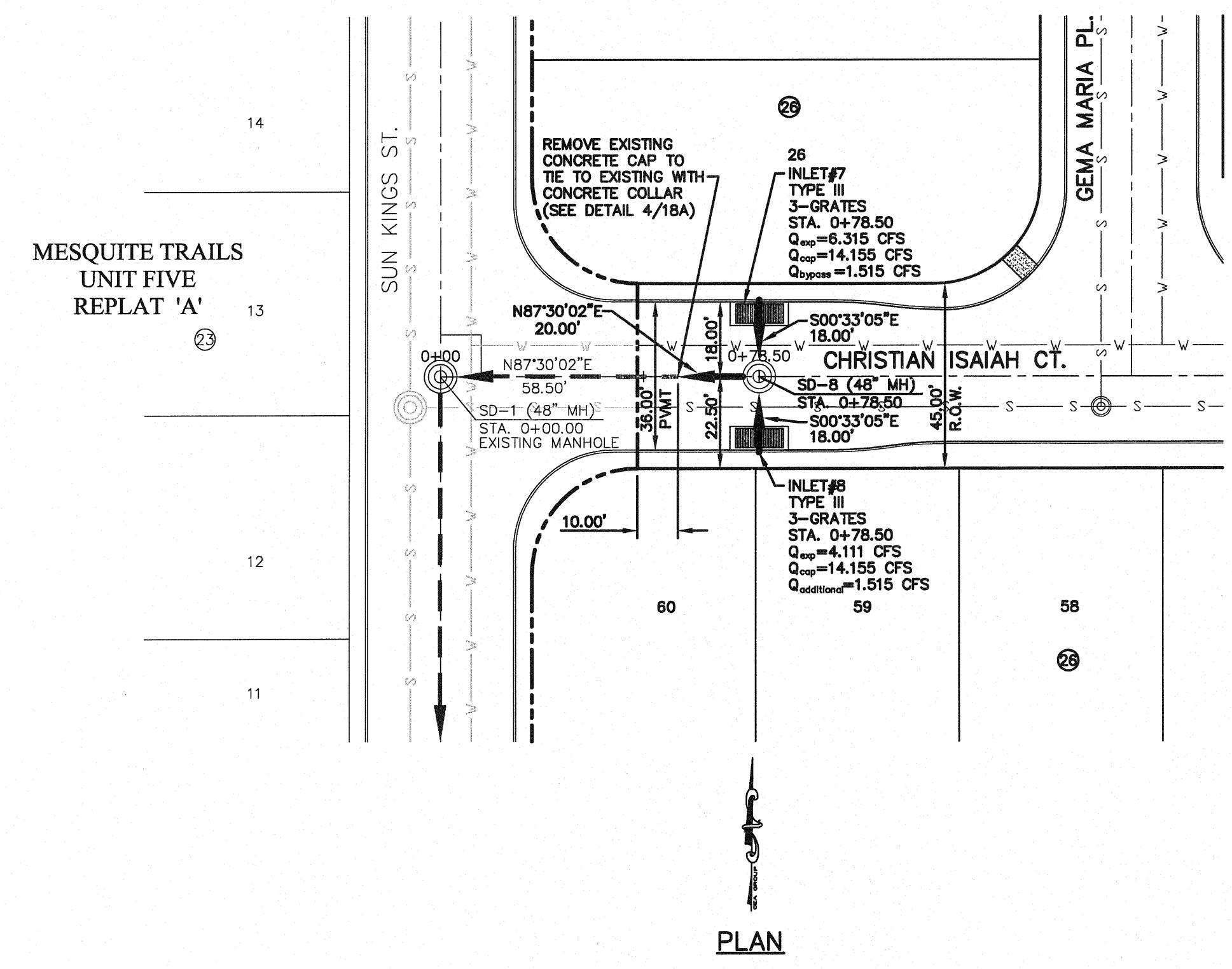
DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
 BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALFREO DRIVE AND PASEO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM).

CS&A
 CONSULTANTS & ARCHITECTS • PLANNERS
 TEXAS REGISTERED ENGINEERING FIRM #454
 4712 Woodrow Beam, Ste. F El Paso, TX 79924
 Office: 915.544.5232 Fax: 915.544.5233 www.csandaplanners.com

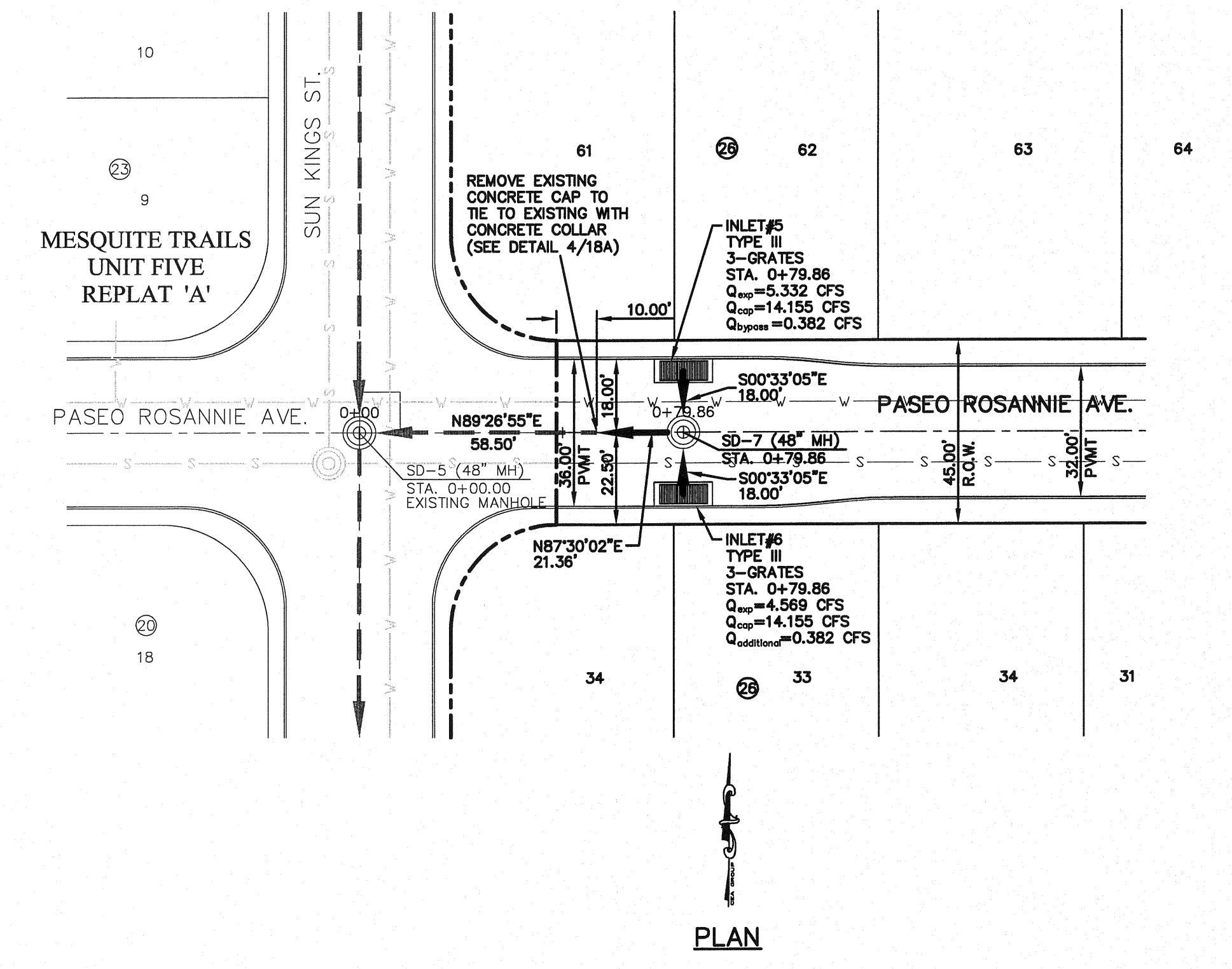


LINE A

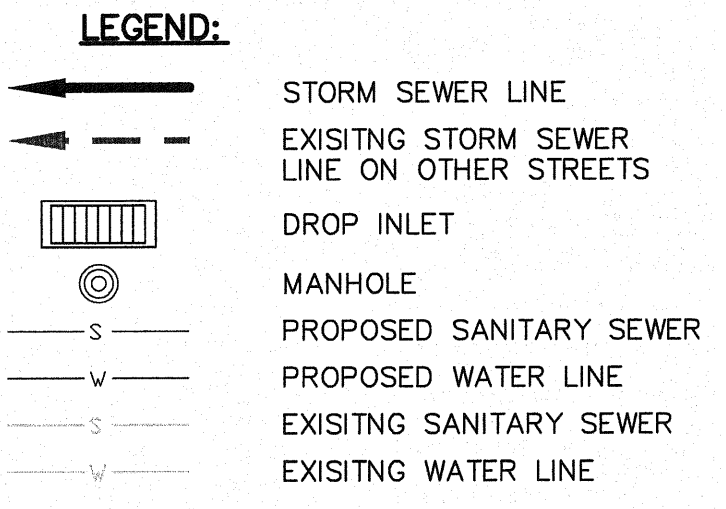


PLAN

LINE B



PLAN



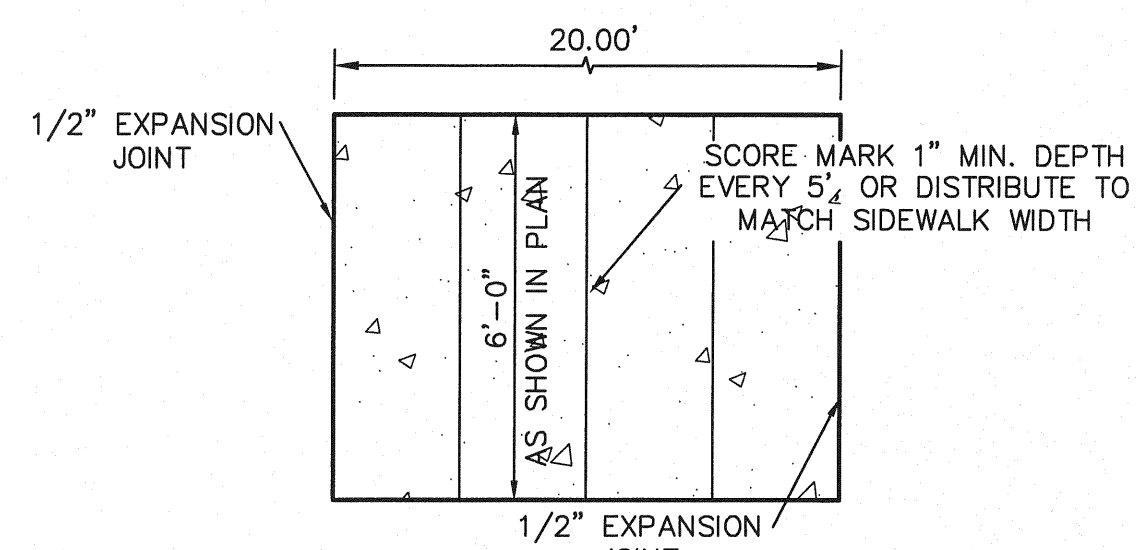
STATION	LINE A	LINE B
4000		
3995		
3990		
3985		
3980		
3975		
3970		
3965		
3960		
3955		
3950		

STATION	LINE A	LINE B
4000		
3995		
3990		
3985		
3980		
3975		
3970		
3965		
3960		
3955		
3950		

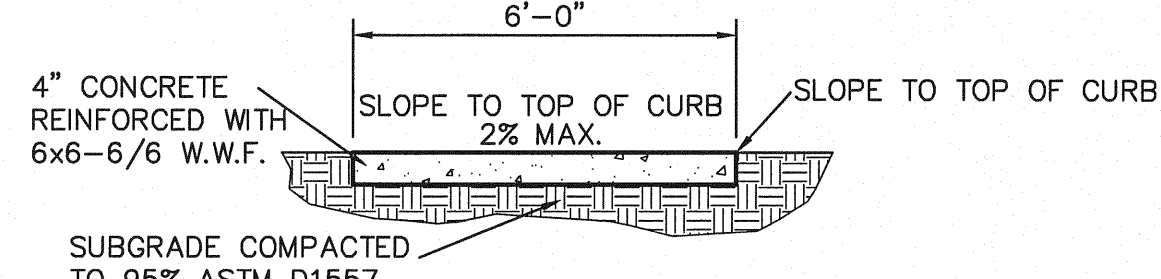
SCALE
 Horizontal: 1"=30'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2010
 DESIGN BY: F.Z.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
 LINE A
 PLAN & PROFILE
 FROM STA. 0+58.50
 TO STA. 0+78.50
 LINE B
 PLAN & PROFILE
 FROM STA. 0+58.50
 TO STA. 0+78.86
 SHEET NO.
14
 OF 24



PLAN

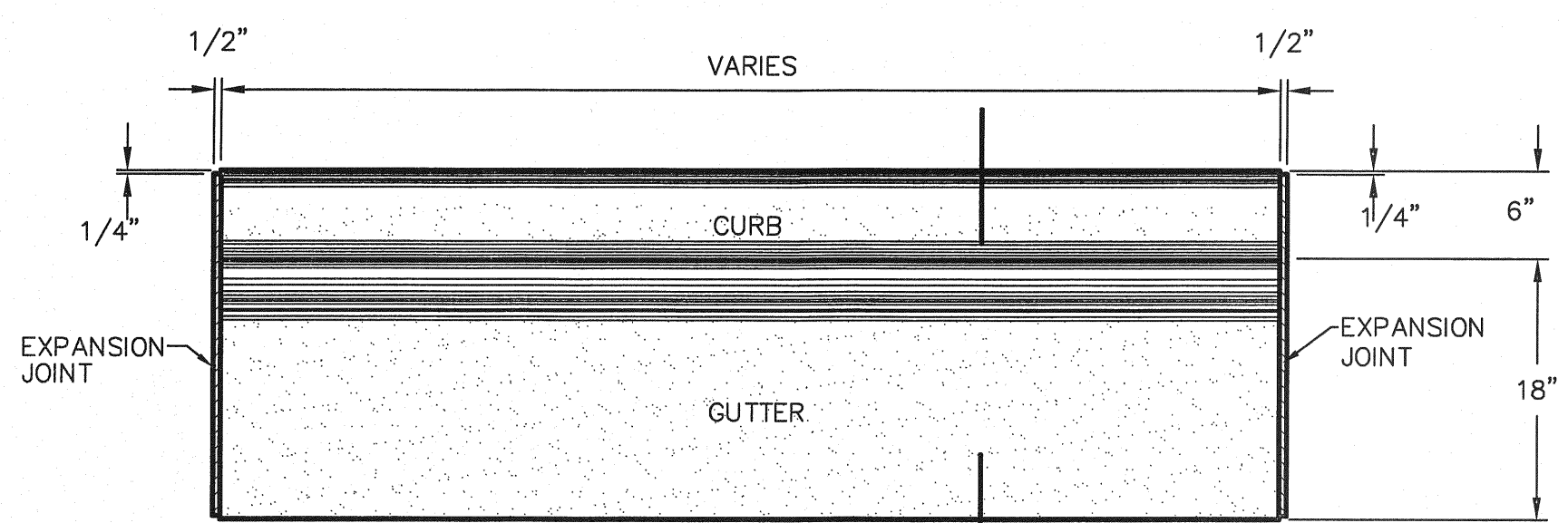


SECTION

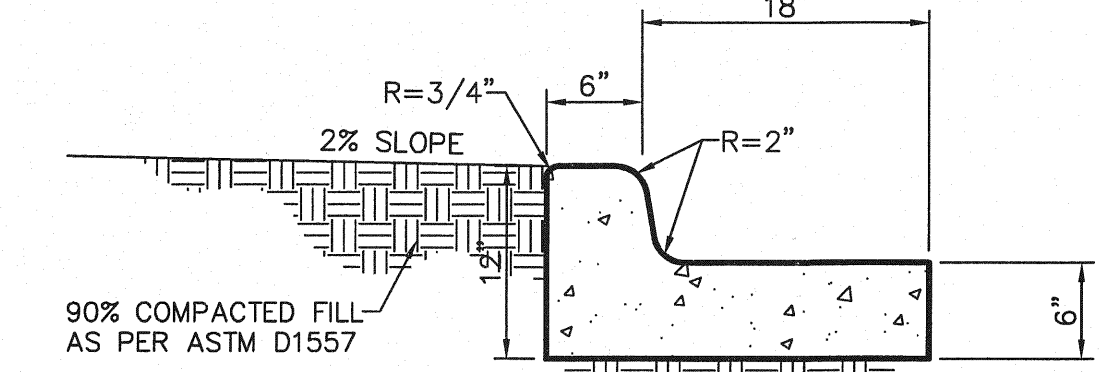
SIDEWALK NOTES:

1. CONCRETE SIDEWALK SHALL BE 3,000 P.S.I.
2. DUMMY JOINTS REQUIRED AT 5' O.C.
3. EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM, USE 1/2" PREMOLDED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)
4. EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS.
5. SUBGRADE TO BE COMPACTED TO 95% ASTM D1557.

1 SECTION-SIDEWALK/SLAB
SCALE: 1/2"=1'-0"



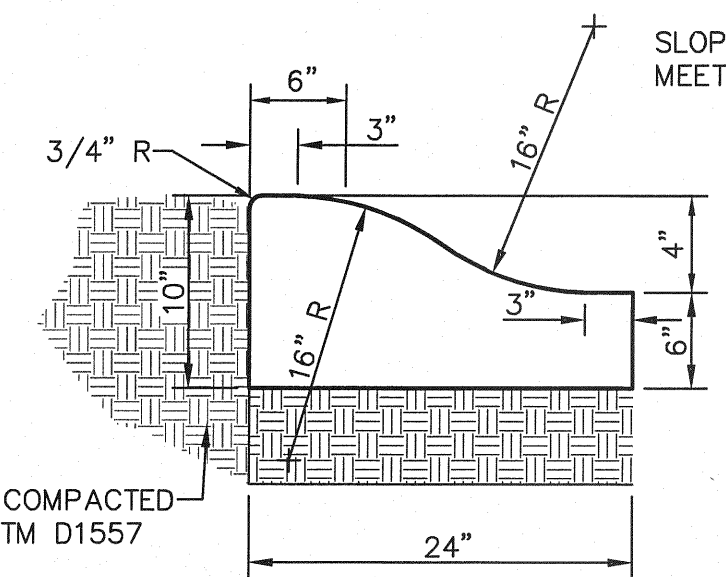
PLAN



A SECTION

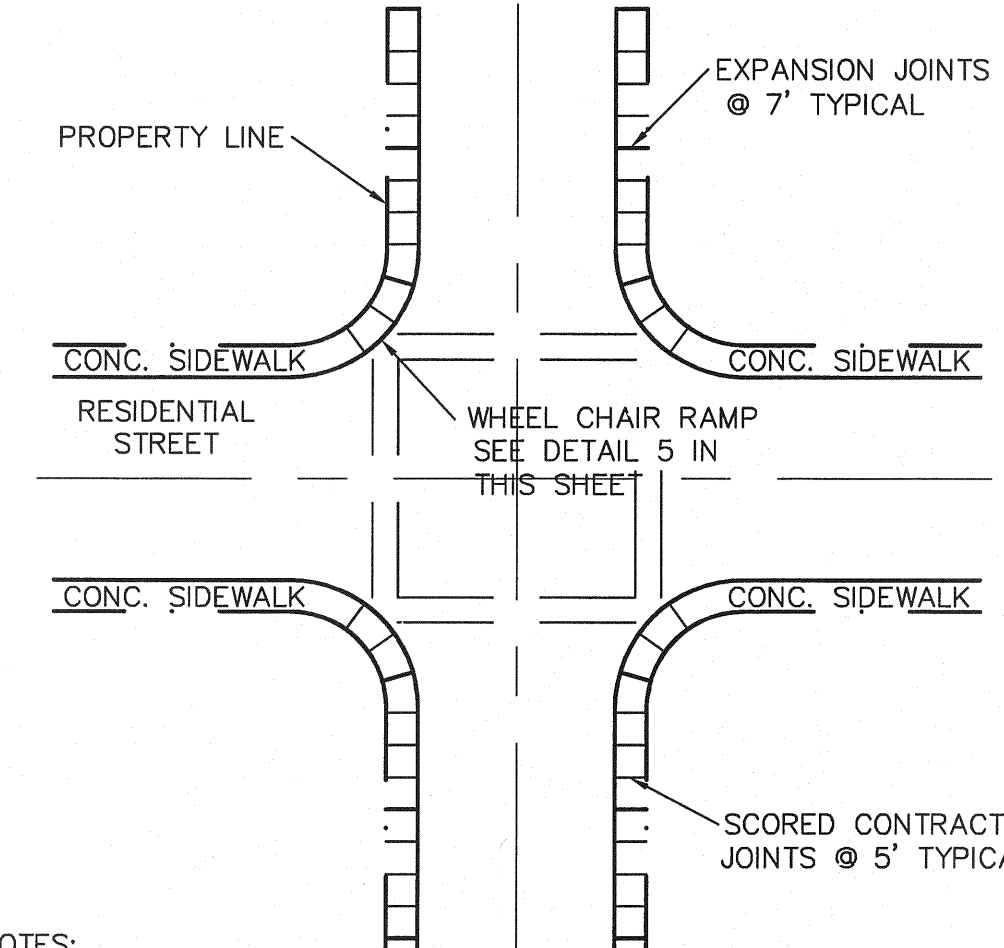
- NOTES:**
1. CONCRETE SHALL BE 3,000 P.S.I. MIN.
 2. DUMMY JOINT REQUIRED AT 10' O.C. FOR CURB & GUTTER, AND 5' O.C. FOR SIDEWALK
 3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS AND AT 20' ON CENTER FOR SIDEWALKS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
 4. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.

2 CURB & GUTTER DETAIL
SCALE: 1"=1'-0"



3 4" CONCRETE ROLLED CURB DETAIL
SCALE: 1"=1'-0"

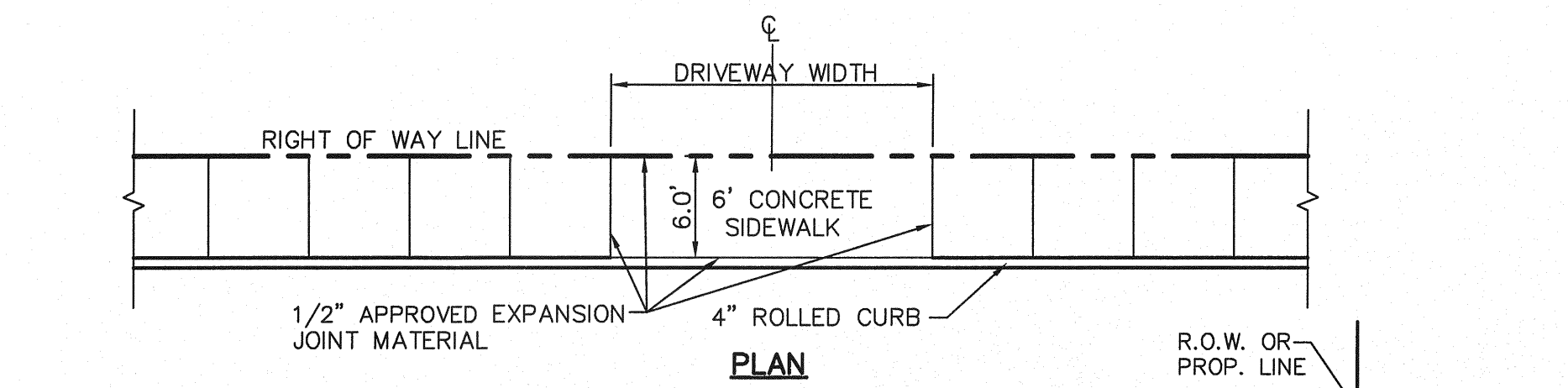
1. CONCRETE TO BE 3000 PSI MIN.
2. DUMMY JOINTS REQUIRED AT 10' O.C. FOR HEADERS AND 5' O.C. FOR SIDEWALK
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR HEADERS.
5. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 7' O.C.
6. * FOR CUL-DE-SAC AND HEEL ONLY.



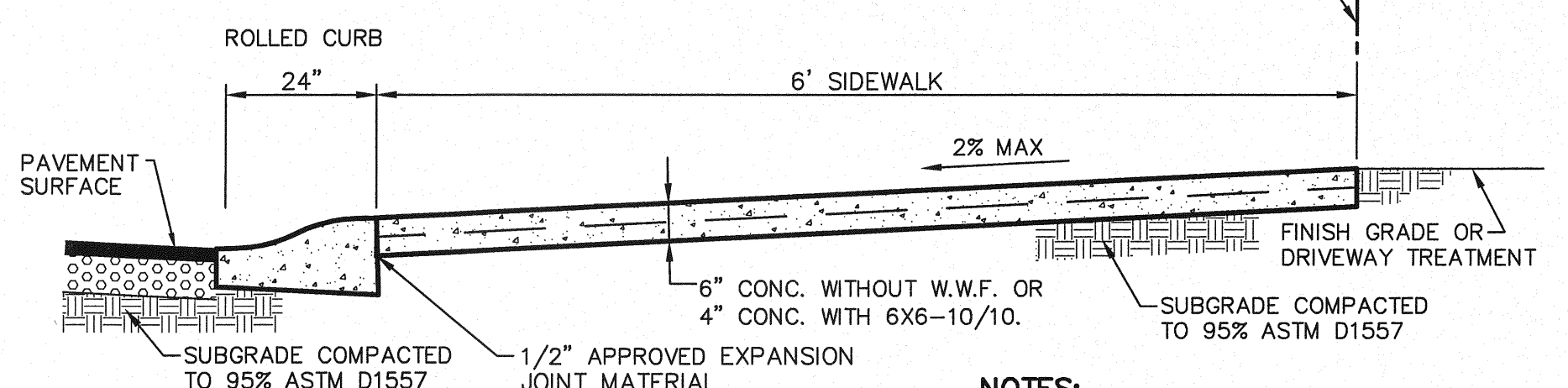
NOTES:

1. RAMPS MAY BE PLACED AS SUGGESTED, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC., MAY AFFECT PLACEMENT.
2. THE CONCRETE SURFACE SHALL HAVE A ROUGH, NONSKID TYPE FINISH.
3. CONSTRUCTION METHODS SHALL CONFORM WITH THE CITY OF EL PASO SPECIFICATIONS.
4. ALL PARKING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF EL PASO STANDARDS.

6 WHEELCHAIR RAMP STREET PLAN
SCALE: 1"=30'-0"

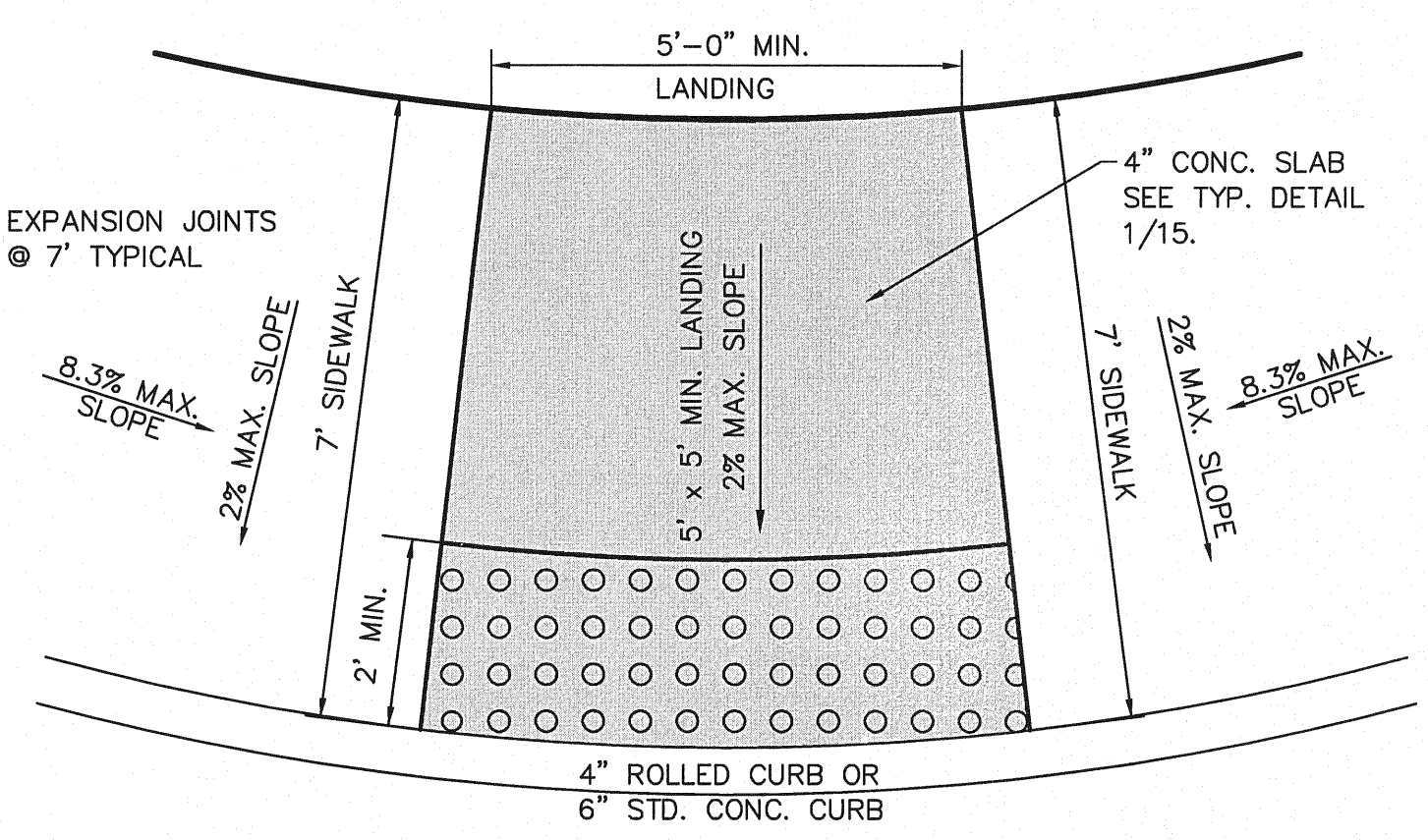


PLAN

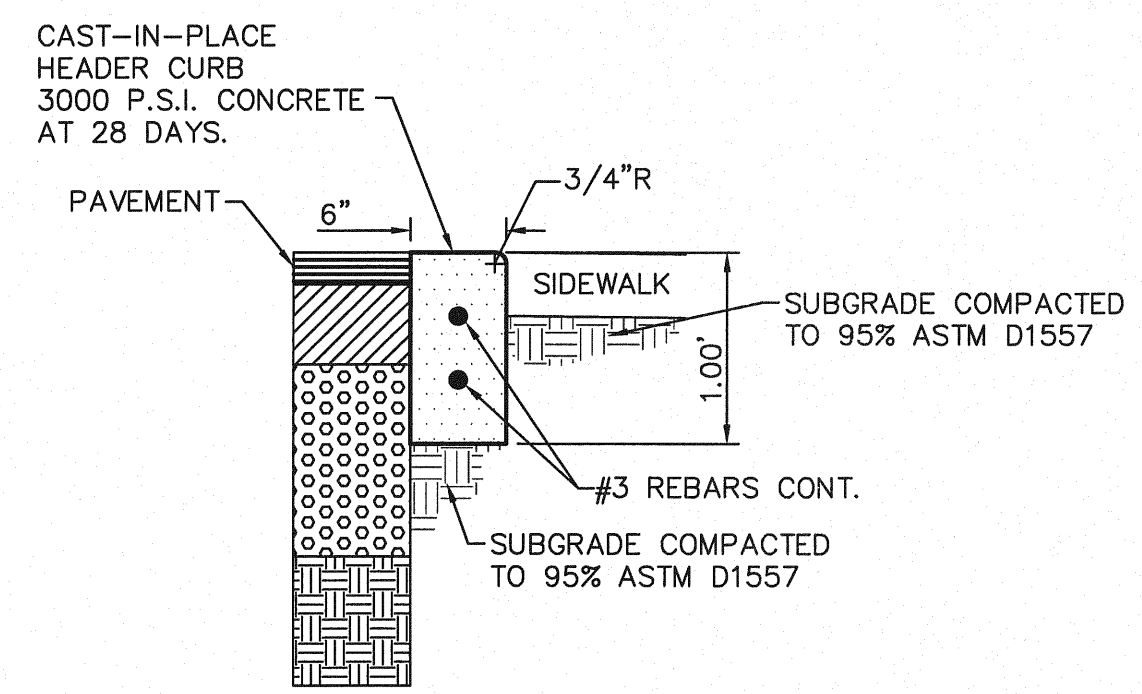


4 SECTION AT CENTERLINE
TYPICAL DRIVEWAY DETAIL
SCALE: N.T.S.

- NOTES:**
- DRIVEWAY SLOPES MUST BE 10% MAX. FROM PROPERTY LINE FOR FIRST 12 FEET AND 14% MAX. THEREAFTER (DRIVEWAY SHALL BE LOCATED @ HIGH SIDE OF LOT UNLESS OTHERWISE COORDINATED WITH CITY OF EL PASO)



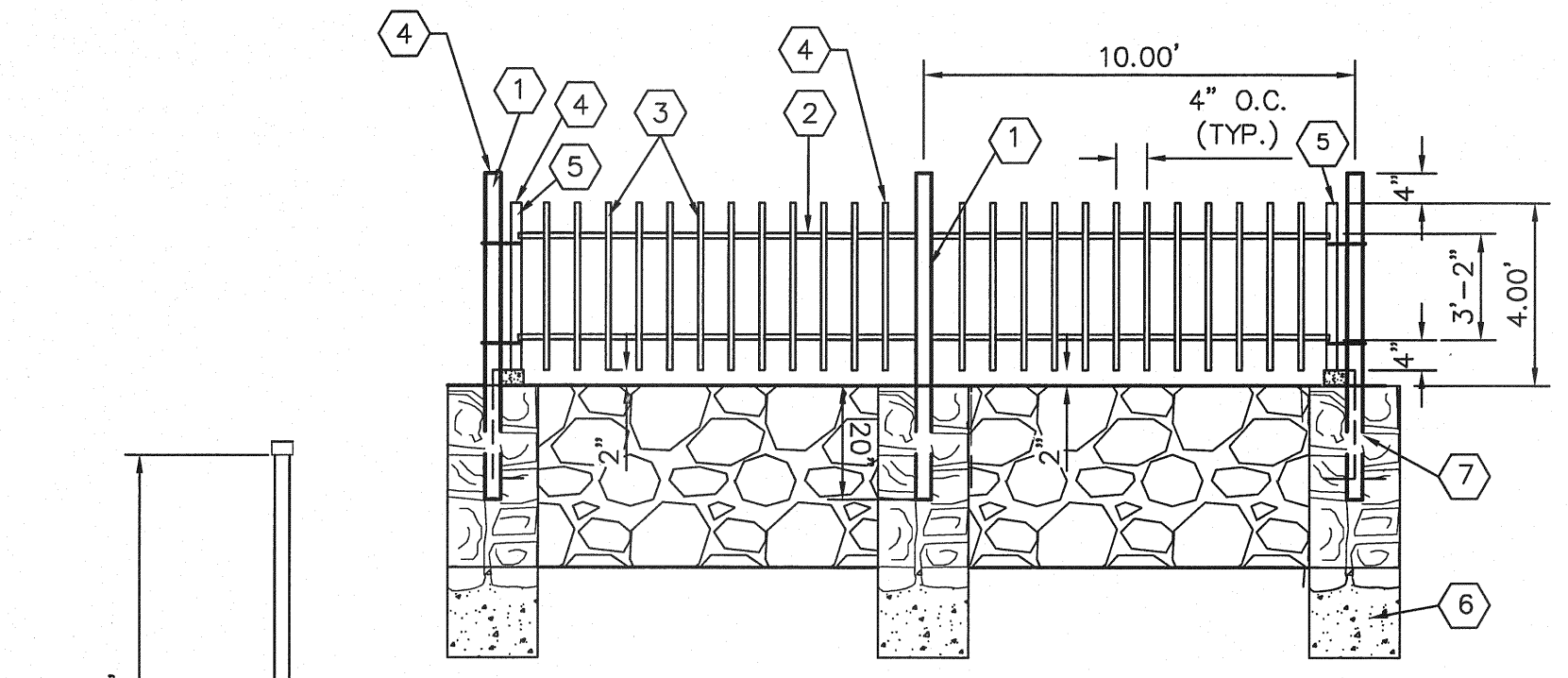
5 TYPICAL WHEELCHAIR RAMP DETAIL
SCALE: 1"=2'-0"



NOTES:

1. EXPANSION JOINTS WILL BE REQUIRED EVERY 50', AT THE END OF CURB RETURNS AND AT POINT OF TANGENCY WITH STRAIGHT RUNS.
2. CONTRACTION JOINTS (1/2 INCH MIN. SCORED JOINTS) MUST BE INSTALLED EVERY 10' O.C. IN HEADER CURB AND 5' O.C. FOR SIDEWALKS.
3. 1/2" PREMOLDED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED FOR ALL CURBS RETURNS. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT HEADER CURB DIMENSION.
4. CONCRETE TO BE CLASS "A", 3000 P.S.I. MIN. @ 28 DAYS.
5. SUBGRADE COMPACTED TO 95% ASTM D1557.

10 HEADER CURB DETAIL
SCALE: 1"=1'-0"

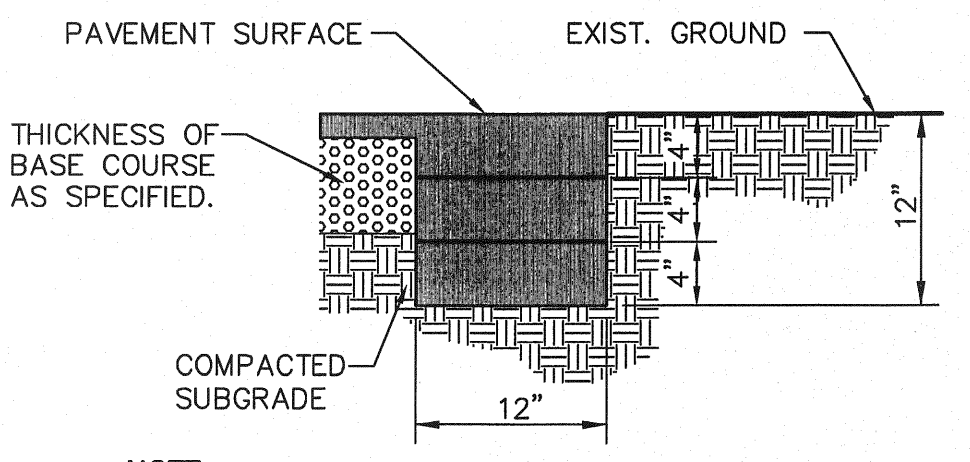


ROCKWALL SECTION
SCALE: 1/2"=1'-0"

KEY NOTES

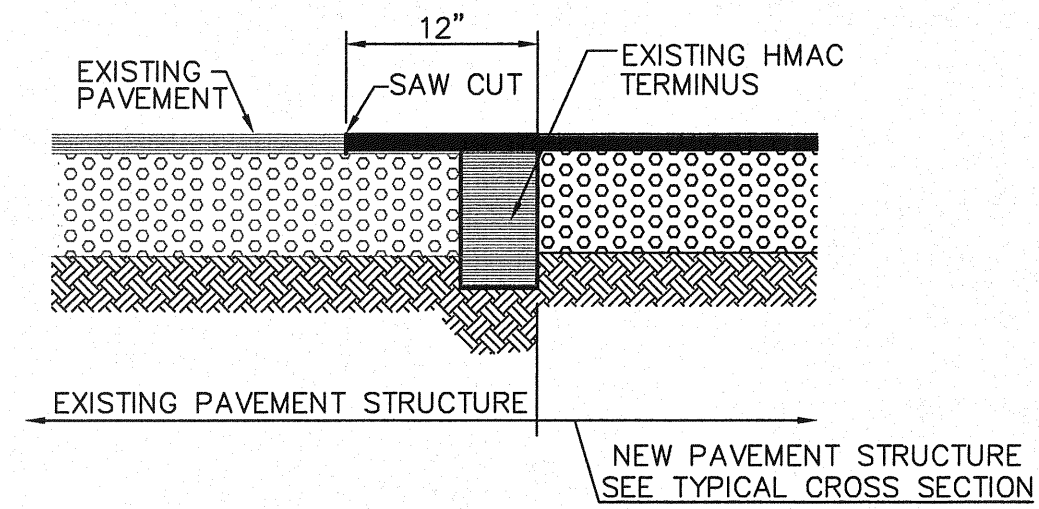
1. 3" x 3" x 3/16" SQUARE STEEL TUBING
 2. 2" x 1" x 14 GA. RECTANGULAR STEEL TUBING
 3. 1 1/2" x 1/2" x 16 GA. RECTANGULAR STEEL TUBING
 4. STEEL CAPS TO BE COMPLETELY WELDED.
 5. 2" x 1" x 10 GA. RECTANGULAR STEEL TUBING
 6. 1' x 1' DEEP 3000 PSI CONCRETE POST FOOTING
 7. 5" x 5" x 3/8" SQUARE STEEL SLEEVE W/7" x 7" x 3/8" BASE PLATE
- * ALL ASSEMBLY TO HAVE COMPLETE WELDS FOR RAILS AND SLATS ONTO EACH OTHER AND POST.

11 TYPICAL ROCKWALL W/ WROUGHT IRON FENCE DETAILS
SCALE: N.T.S.

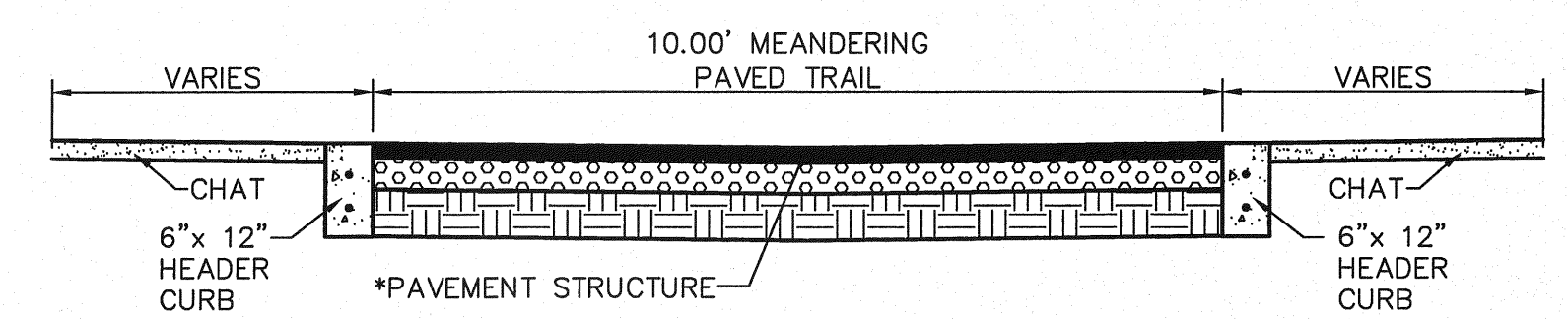


- NOTE:**
- TERMINUS MUST BE CONSTRUCTED IN 4" LIFTS.
 - FINAL LIFT MUST BE PLACED WITH FINAL PAVEMENT COURSE.

7 TERMINUS OF STREET
SCALE: 1"=1'-0"

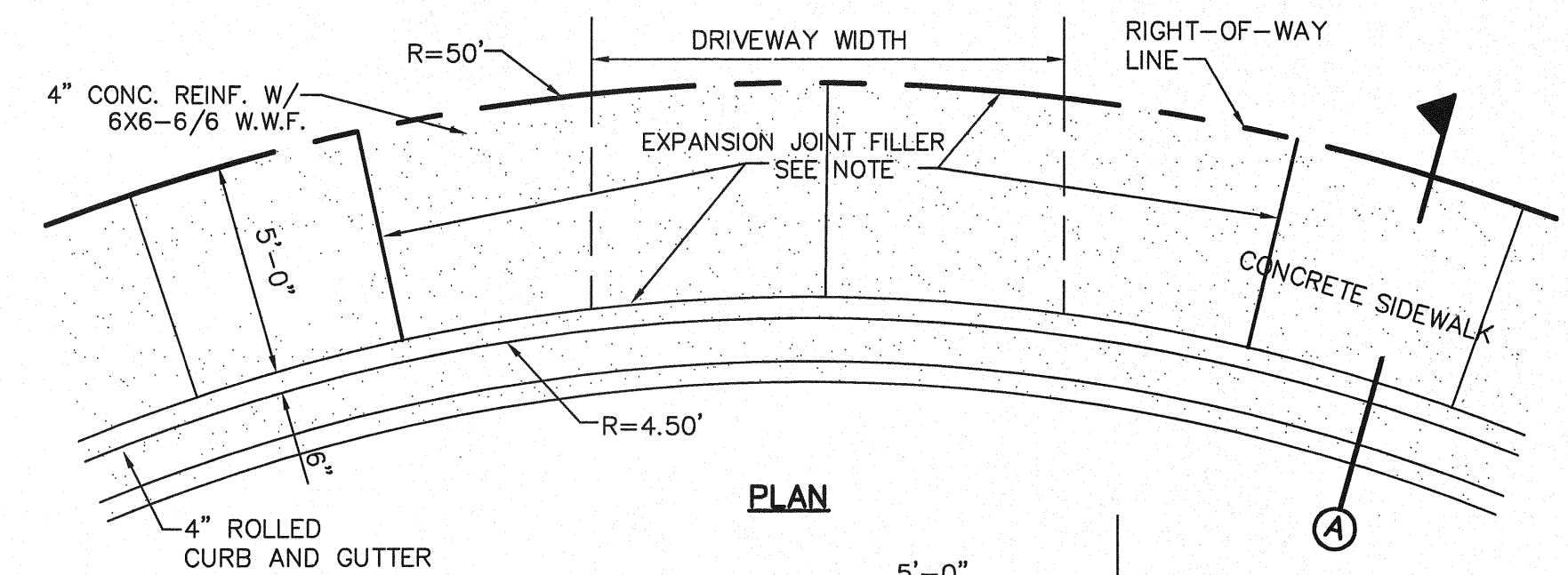


8 TYPICAL PAVEMENT JOINT SECTION
SCALE: N.T.S.

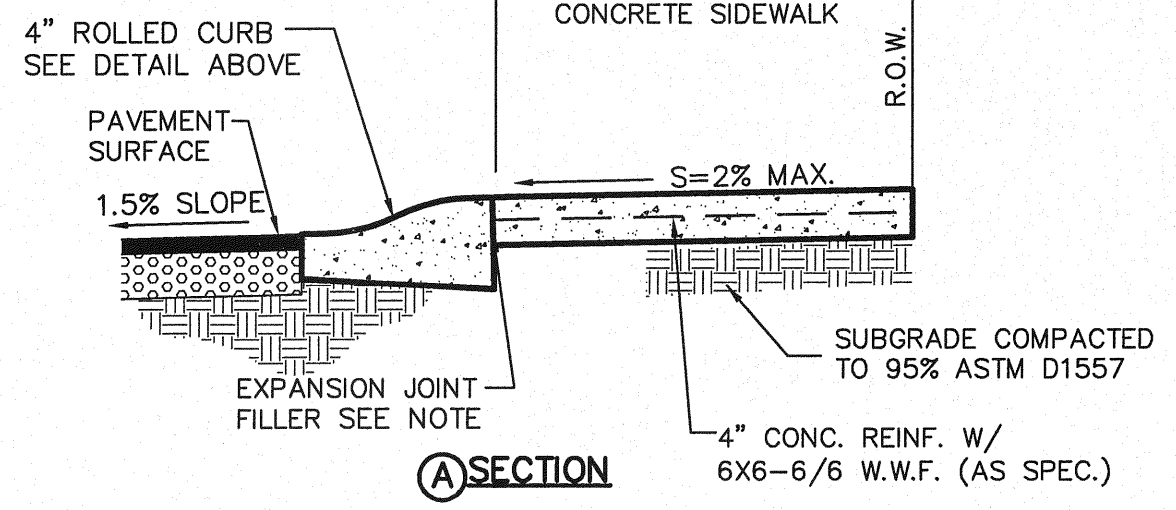


9 JOGGING PATH DETAIL
SCALE: 1"=6"

- *NOTE:**
- 1 1/2" HMAc TYPE D SEAL COATED (2 COATS)
 - 6" CSBC 100% COMPACTED AS PER ASTM D-1557
 - 8" SCARIFIED SUBGRADE 95% COMPACTED AS PER ASTM D-1557
- RUNNING SLOPE SHALL NOT EXCEED 5% AT ANY GIVEN POINT
- CROSS SLOPE SHALL NOT EXCEED 2% AT ANY GIVE POINT



PLAN



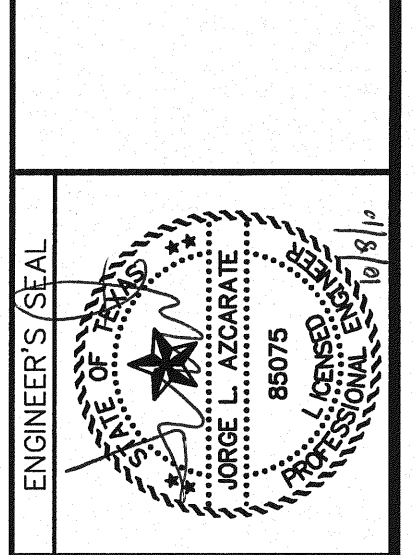
A SECTION

- NOTE:** EXPANSION JOINT FILLER SHALL CONSIST OF 1/2" BITUMINOUS TYPE PREFORMED (AASHTO M-33)

12 CUL-DE-SAC (50' R) DRIVEWAY DETAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS	BY
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASO ALERE DRIVE AND PASO LINDO DRIVE	DATE
ELEVATION = 4003.10 (CITY DATUM)	REVISIONS

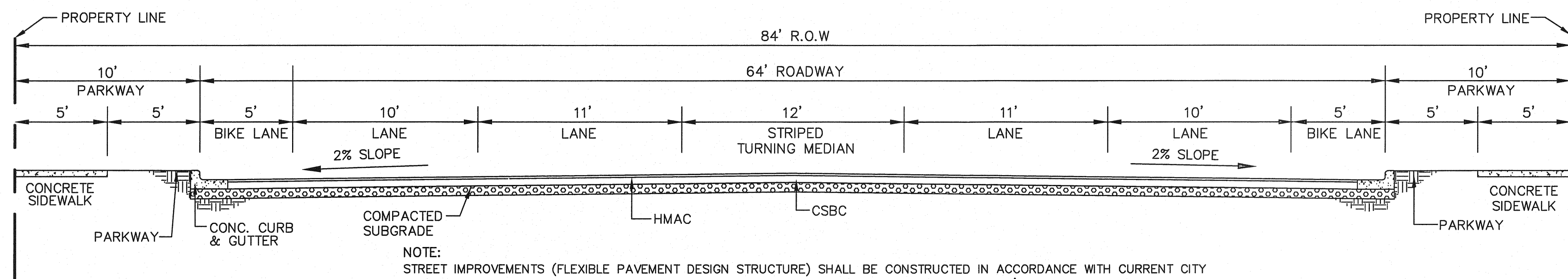
osa
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4684
4712 Woodrow Bean, Ste. F, El Paso, TX 79924
Office: 915.541.5232 Fax: 915.541.5233 www.osaplan.com



SCALE: N/A	DATE: JUNE 2010
Horizontal: N/A	DESIGN BY: J.M.
Vertical: N/A	DRAWN BY: J.L.A.
Contour Interval: N/A	CHECKED BY: J.L.A.
	APPROVED BY: J.L.A.
	JOB No.: 2000-117-LD

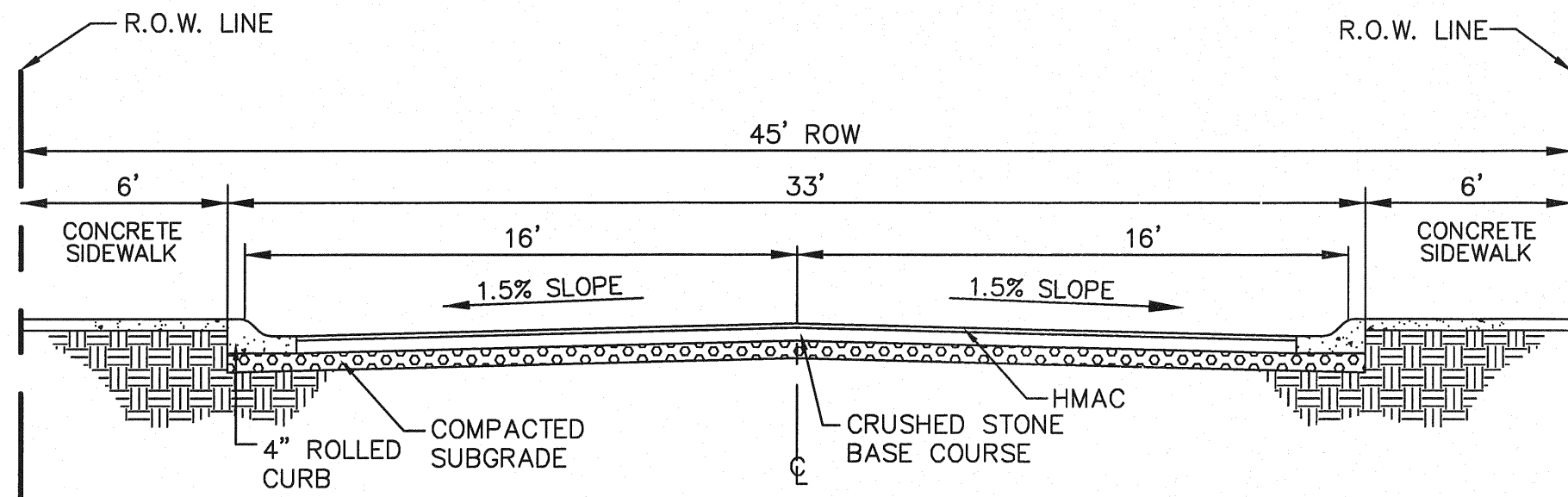
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
STANDARD DETAILS
(SHEET 1 OF 3)
SHEET NO.



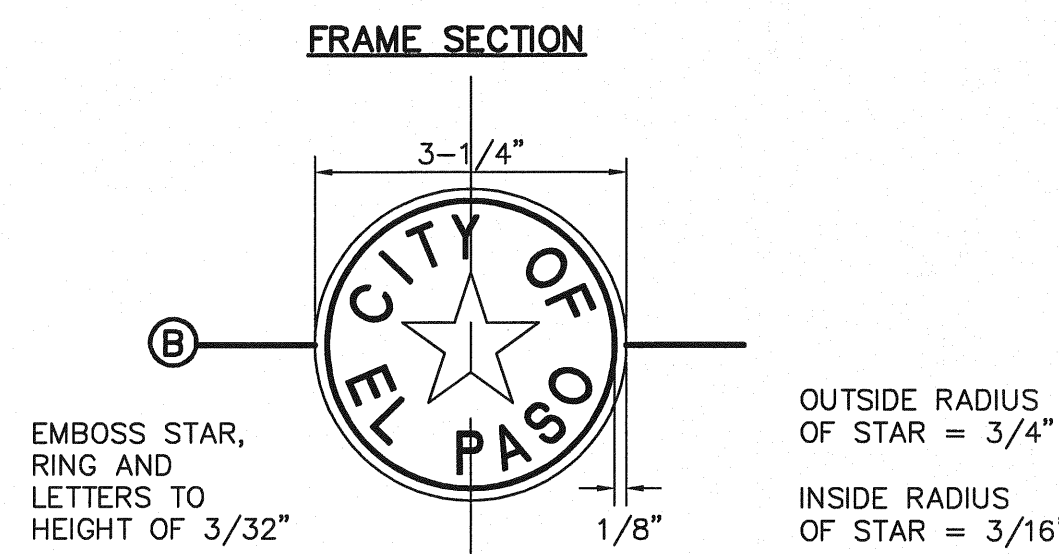
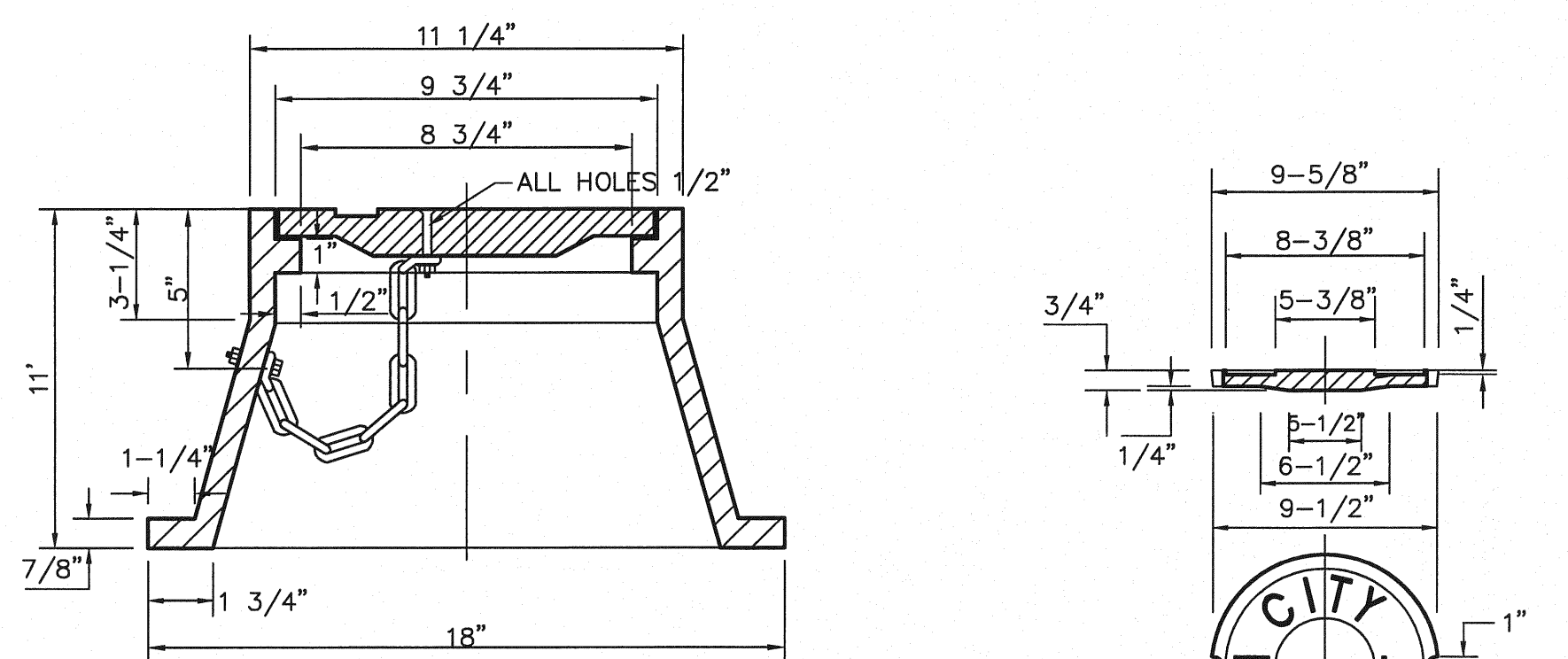
NOTE:
STREET IMPROVEMENTS (FLEXIBLE PAVEMENT DESIGN STRUCTURE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS. CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT. THE CBR RESULTS WILL DICTATE THE REQUIRED THICKNESS OF THE PAVEMENT STRUCTURE BASED ON CITY OF EL PASO DESIGN STANDARDS. THE DEVELOPER SHALL PLACE THE HIGHER VALUE OF PAVEMENT STRUCTURE BASED ON THE CBR RESULTS OR THE MINIMUM PAVEMENT THICKNESS AS SHOWN ON THE CITY OF EL PASO DESIGN STANDARDS.

1
16 TYPICAL 84' ROW STREET W/BIKE LANES SECTION DETAIL
SCALE: N.T.S.

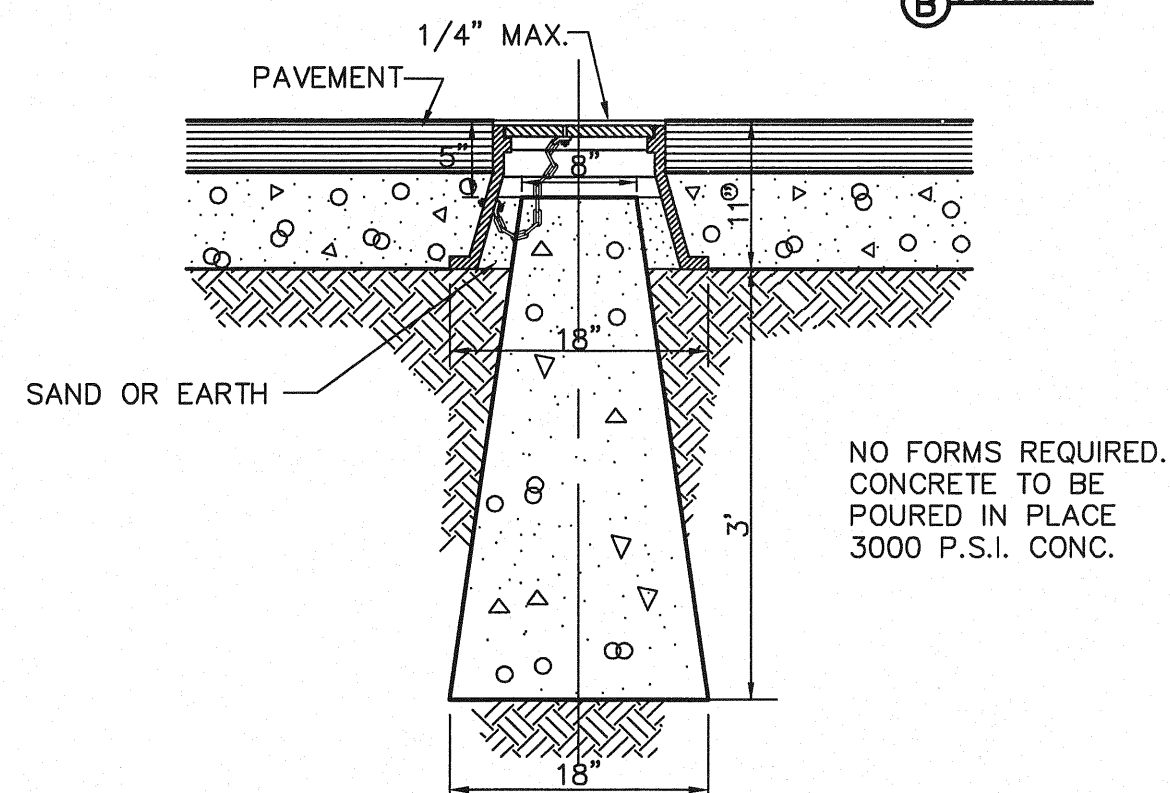


NOTE:
STREET IMPROVEMENTS (FLEXIBLE PAVEMENT DESIGN STRUCTURE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS. CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT. THE CBR RESULTS WILL DICTATE THE REQUIRED THICKNESS OF THE PAVEMENT STRUCTURE BASED ON CITY OF EL PASO DESIGN STANDARDS. THE DEVELOPER SHALL PLACE THE HIGHER VALUE OF PAVEMENT STRUCTURE BASED ON THE CBR RESULTS OR THE MINIMUM PAVEMENT THICKNESS AS SHOWN ON THE CITY OF EL PASO DESIGN STANDARDS.

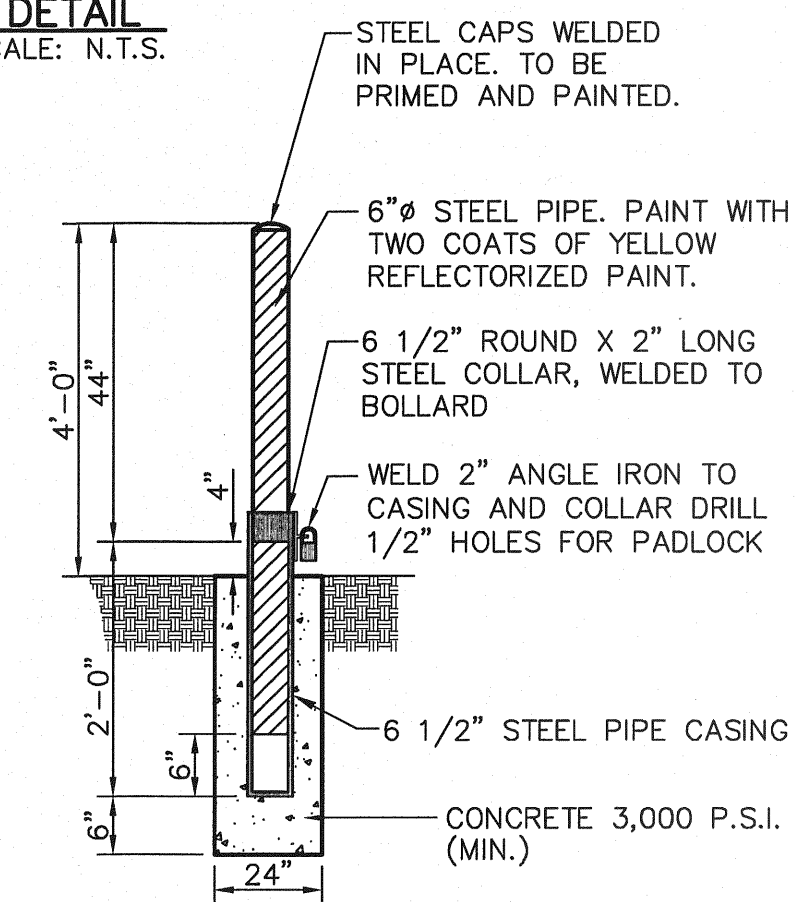
2
16 TYPICAL 45' ROW STREET SECTION DETAIL
SCALE: N.T.S.



BRONZE MONUMENT CAP

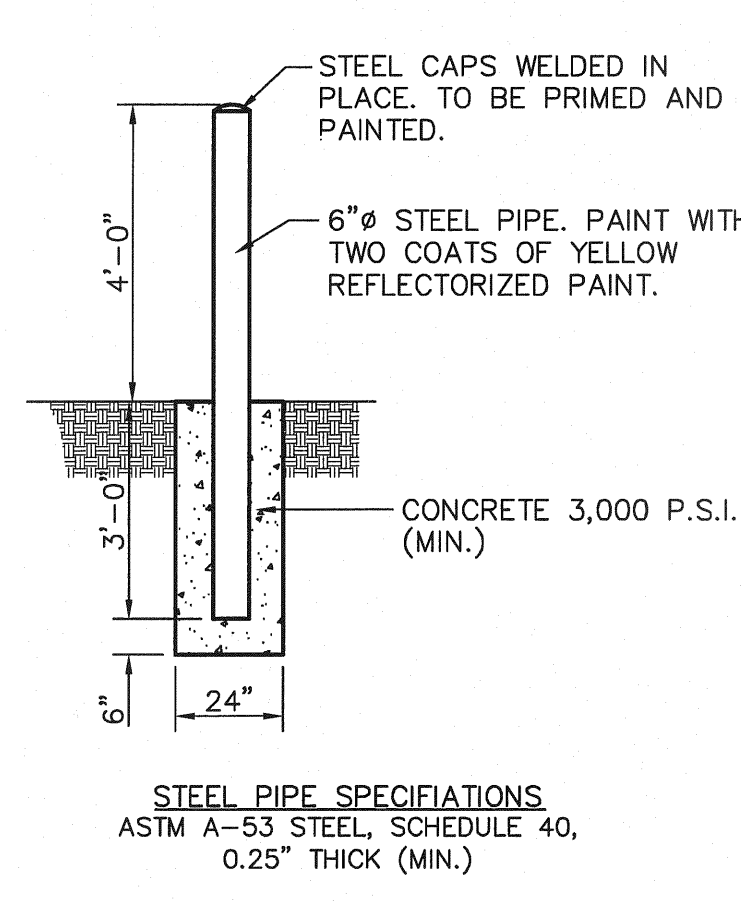


6
16 CITY SURVEY MONUMENT DETAILS
SCALE: N.T.S.



STEEL PIPE SPECIFICATIONS
ASTM A-53 STEEL, SCHEDULE 40,
0.25" THICK (MIN.)

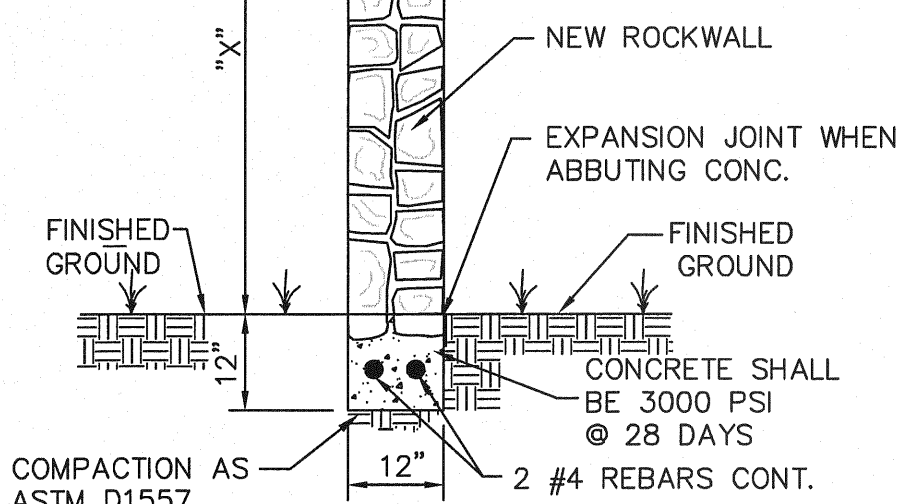
3
16 TYPICAL REMOVABLE BOLLARD
POST EMBEDMENT DETAIL
SCALE: N.T.S.



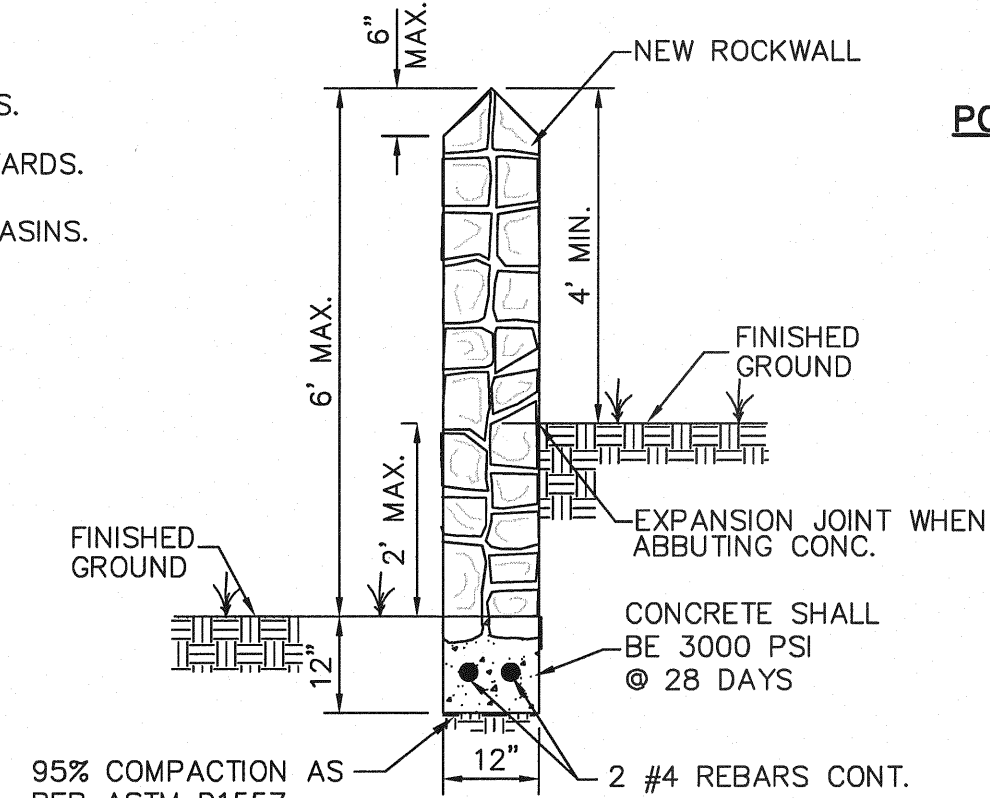
STEEL PIPE SPECIFICATIONS
ASTM A-53 STEEL, SCHEDULE 40,
0.25" THICK (MIN.)

4
16 TYPICAL FIXED BOLLARD
POST EMBEDMENT DETAIL
SCALE: N.T.S.

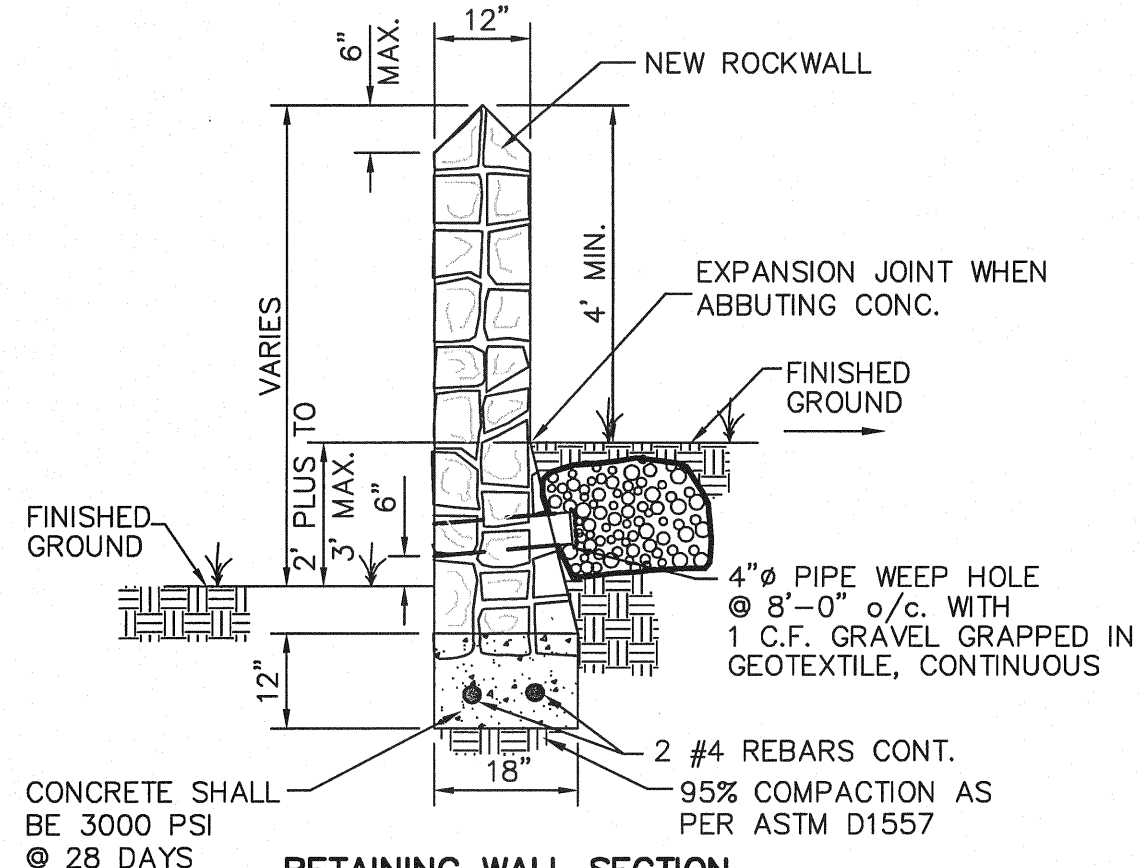
1. 4' MIN. ALONG REAR & 4' MIN. BETWEEN SIDE YARDS.
2. 3'-6" MAX. ALONG FRONT YARDS.
3. 6' HIGH @ DRAINAGE AND BASINS.



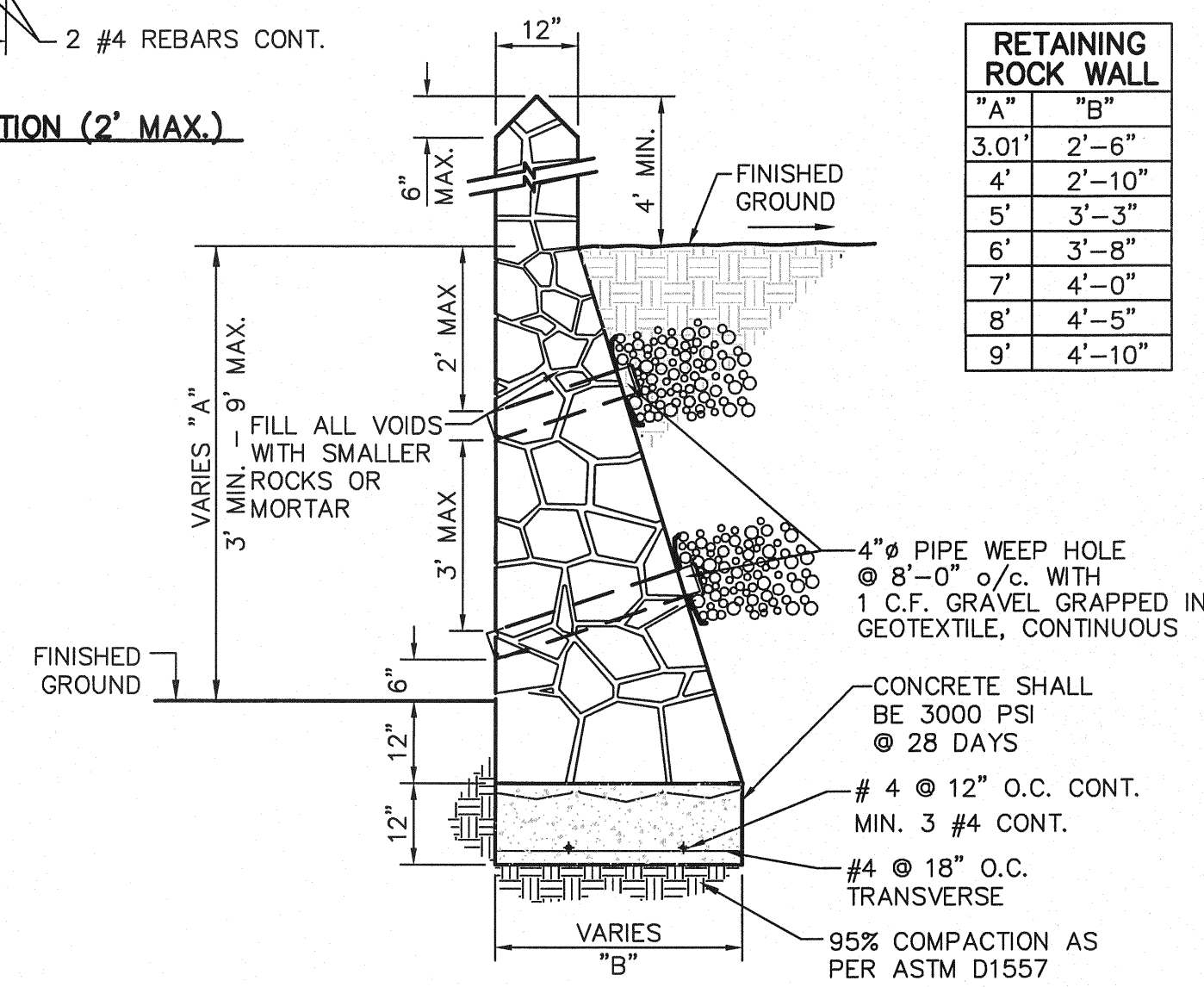
GARDEN WALL SECTION



GARDEN WALL SECTION (2' MAX.)



RETAINING WALL SECTION
(2' PLUS TO 3' MAX.)

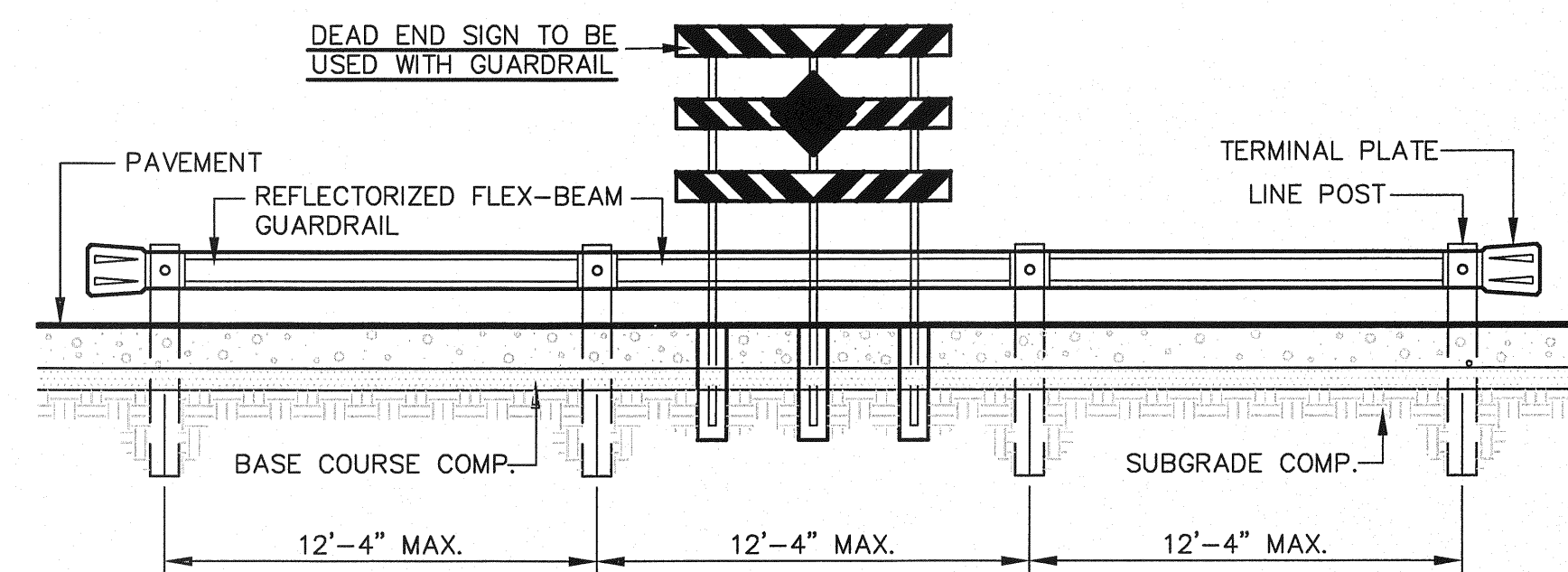


RETAINING WALL SECTION (3' MIN. TO 9' MAX.)

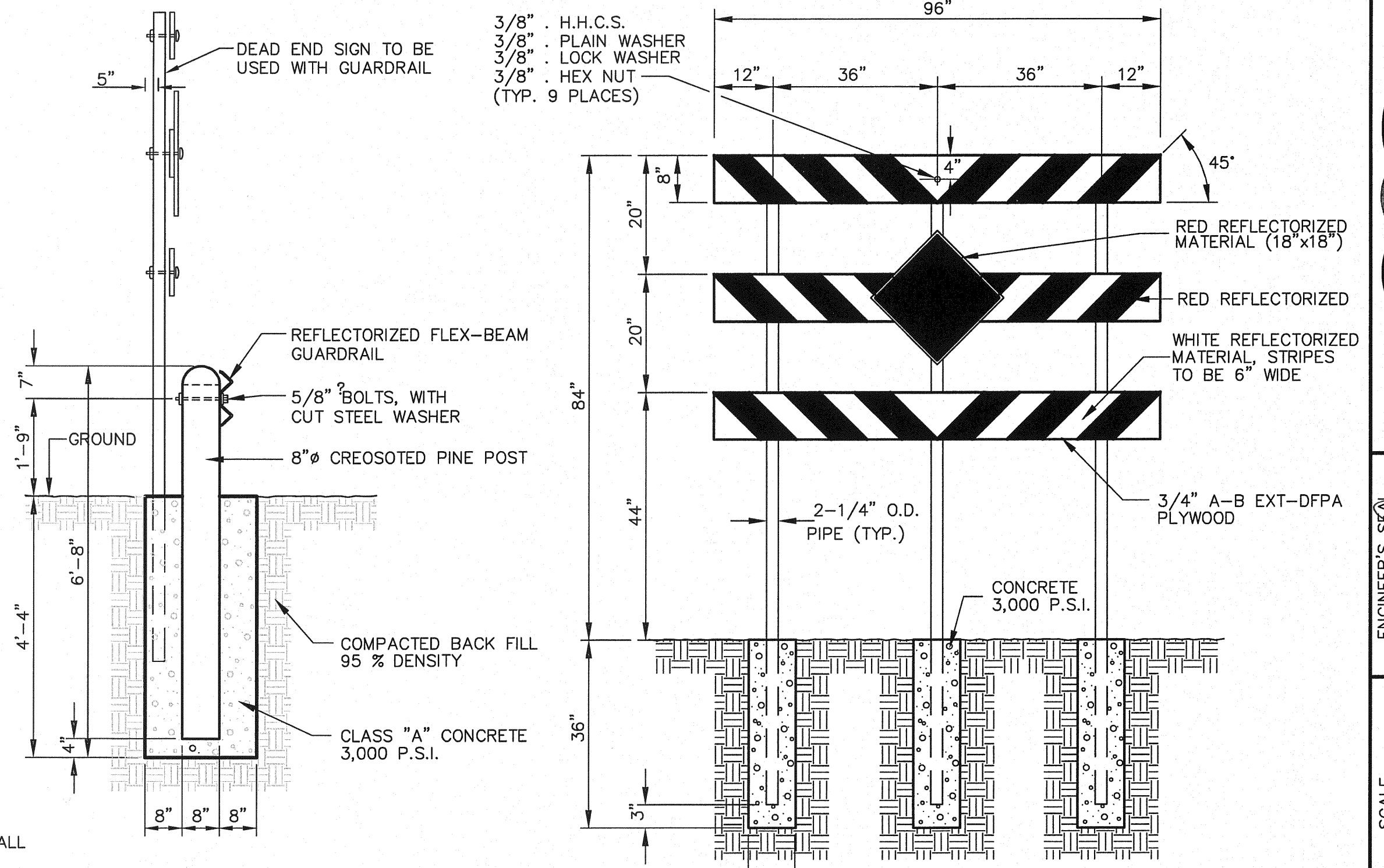
RETAINING ROCK WALL	
"A"	"B"
3.0'	2'-6"
4'	2'-10"
5'	3'-3"
6'	3'-8"
7'	4'-0"
8'	4'-5"
9'	4'-10"

ROCK WALL NOTES

1. STONE FOR ROCKWALL SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IN PRACTICABLE THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER
2. MORTAR MUST BE TYPE "S": 1800 P.S.I. AS PER ASTM C270
3. MASONRY WALL OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
4. WALLS ADJACENT TO PONDING AREAS OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK, ROCK, STONE, OR CINDER BLOCK AND SHALL NOT BE LESS THAN SIX (6) FEET HIGH.
5. ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES
6. PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET
7. ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED
8. ALL STONE FOR ROCKWALLS SHALL BE FRACTURED QUARRIED ROCK OR ROUND ROCK, NO RIVER ROCK SHALL BE ALLOWED.
9. REINFORCING STEEL SHALL BE ASTM A615 GRADE 40.
10. ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSI (MINIMUM)
11. BACKFILL MATERIALS SHALL CONSIST OF COARSE GRAINED, WELL-DRAINED SOILS (WITH NO CLAY CONTENT).



ELEVATION
SCALE: 1"=5'



POST AND SIGN DETAIL
SCALE: N.T.S.

DEAD END SIGN DETAIL
SCALE: 1" = 2'-0"

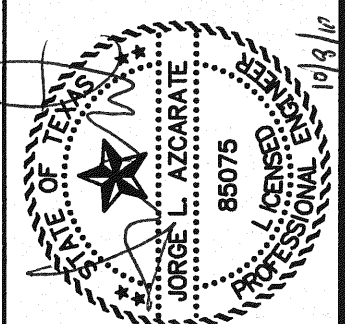
5
16 GUARD RAIL/SIGN ASSEMBLY AT DEAD END STREET DETAIL
SCALE: AS SHOWN

7
16 TYPICAL ROCKWALL DETAILS
SCALE: 1" = 2'-0"

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASO ALEGRE CIRCLE AND PASO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4684
4712 Woodrow Plaza, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.ceogroup.net

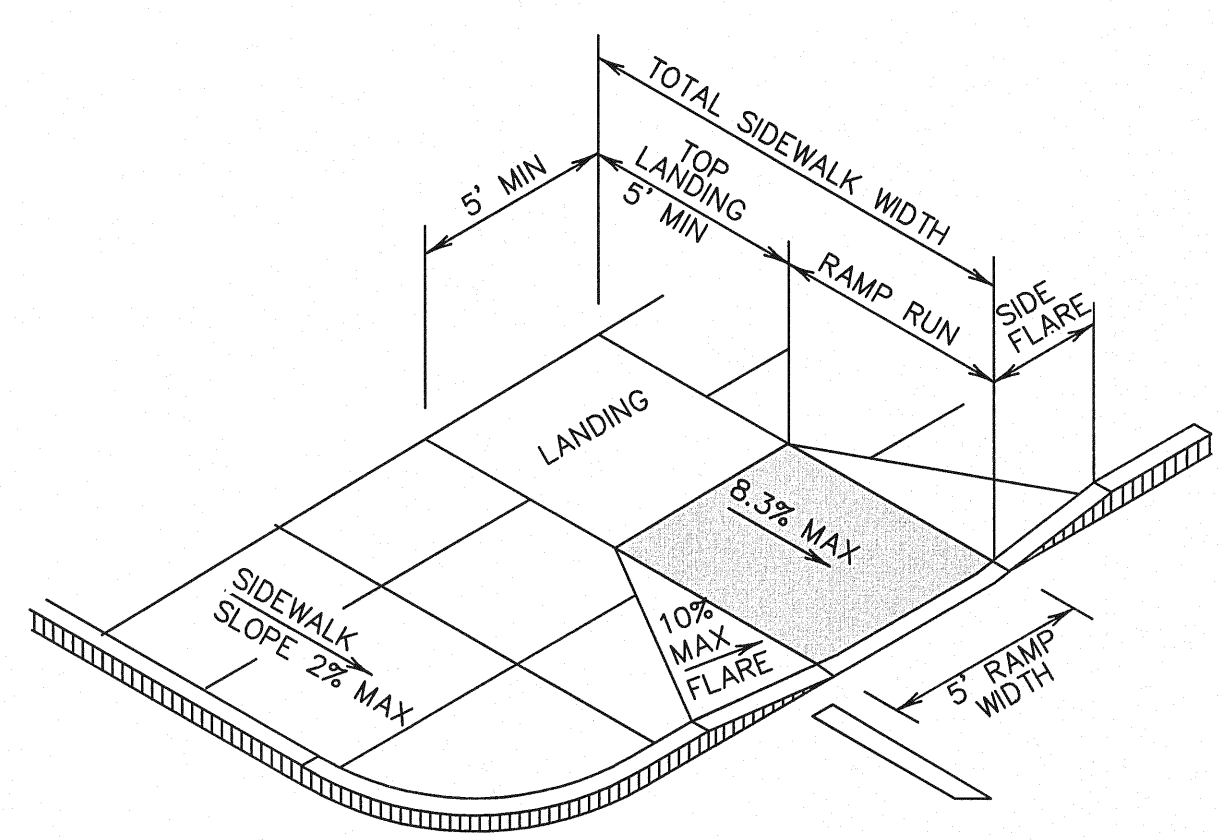


SCALE	N/A
Horizontal	N/A
Vertical	N/A
Contour Interval	N/A
DATE	JUNE 2010
DESIGN BY	F.Z.
DRAWN BY	J.M.
CHKD. BY	J.L.A.
APPROV. BY	J.L.A.
JOB NO.	2000-117-LD

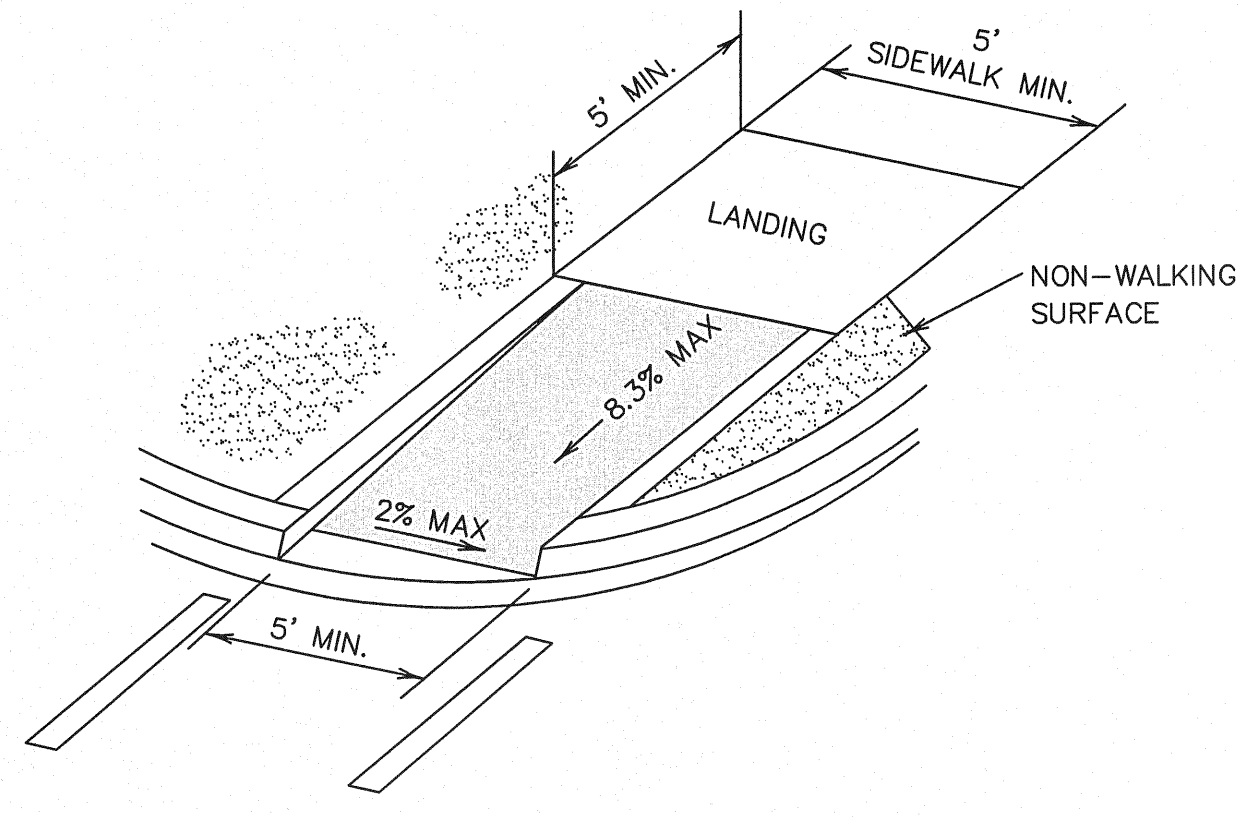
PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
STANDARD DETAILS
(SHEET 2 OF 3)
SHEET NO.

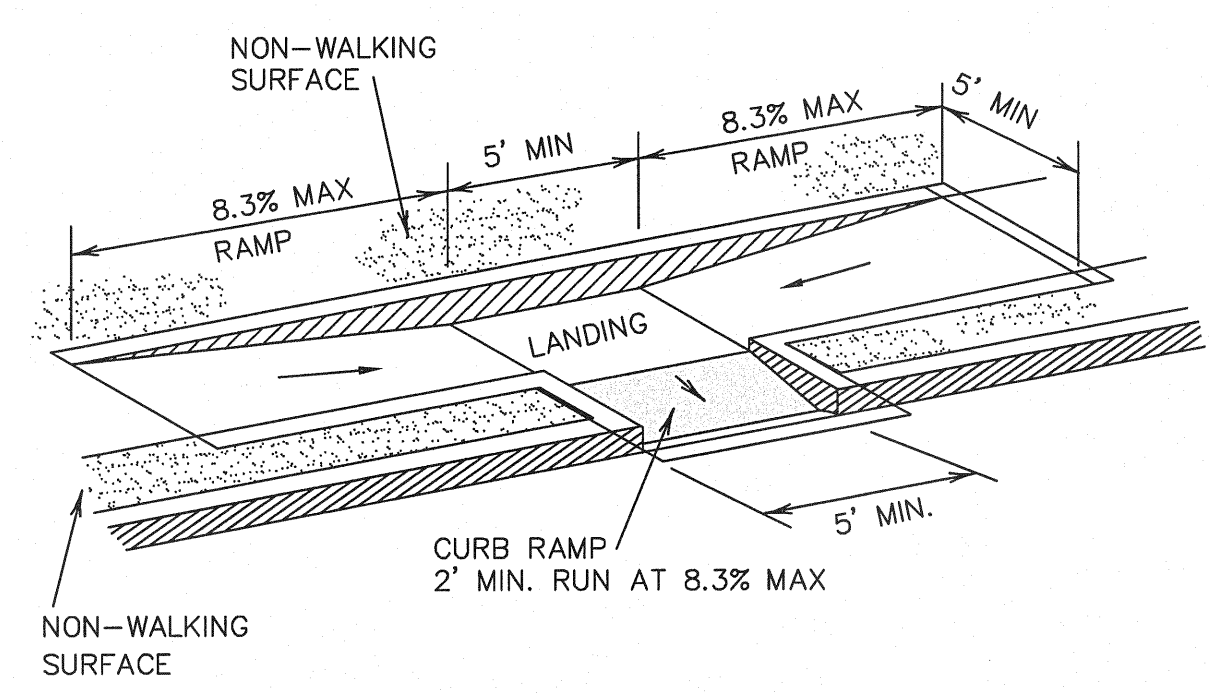
16
OF 24



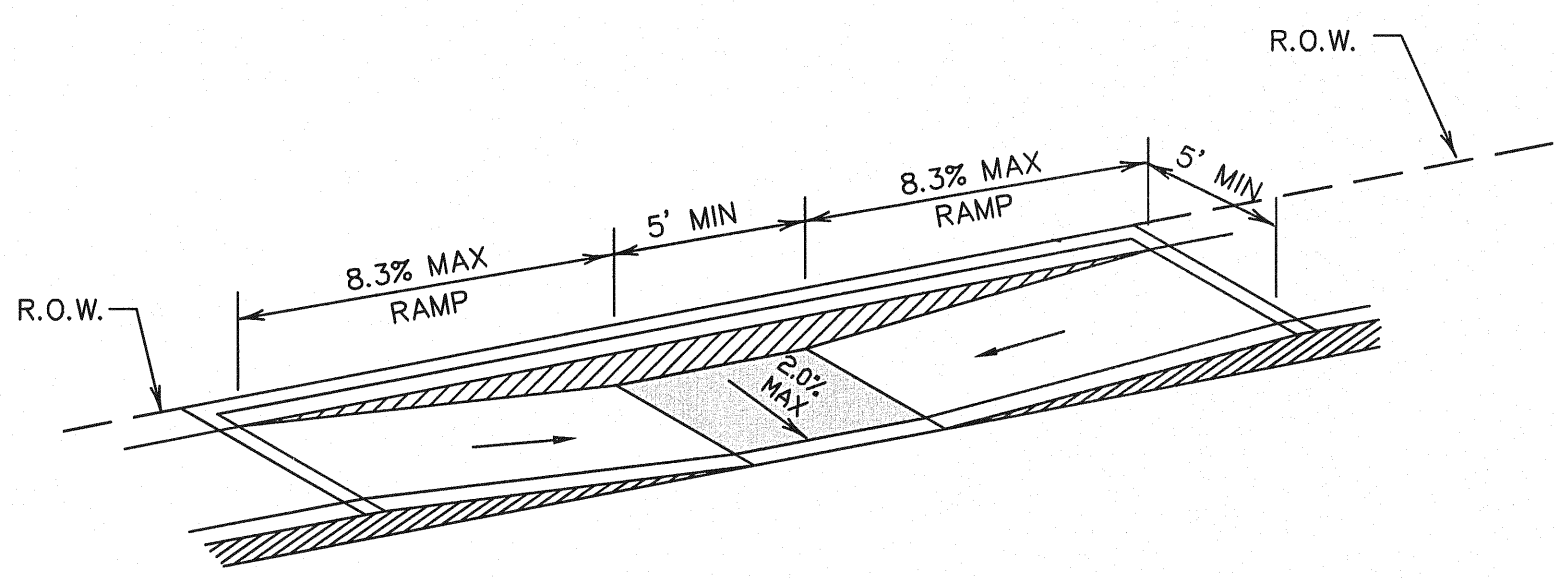
1 PERPENDICULAR CURB RAMP (TYPE I)
SCALE: N.T.S.



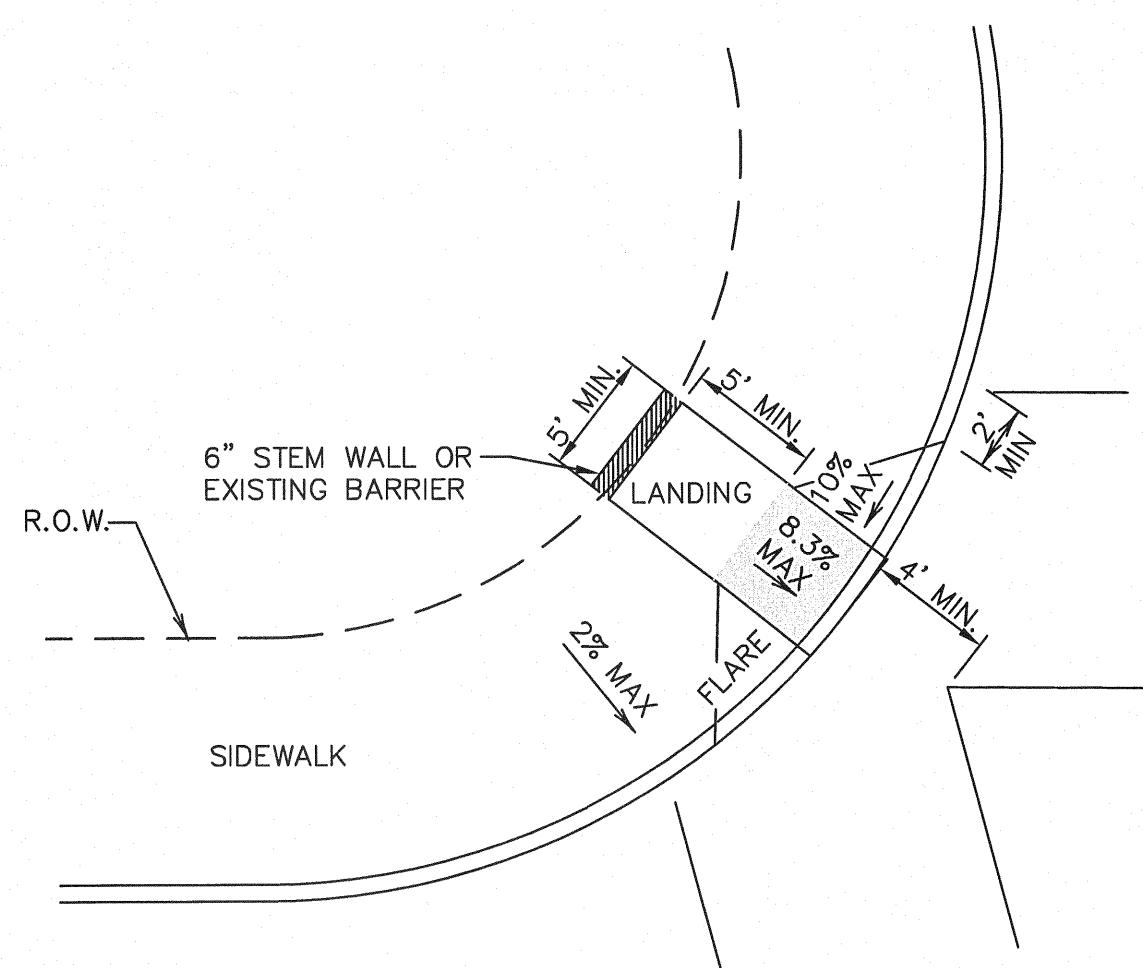
4 DIRECTIONAL RAMP WITHIN RADIUS (TYPE IV)
SCALE: N.T.S.



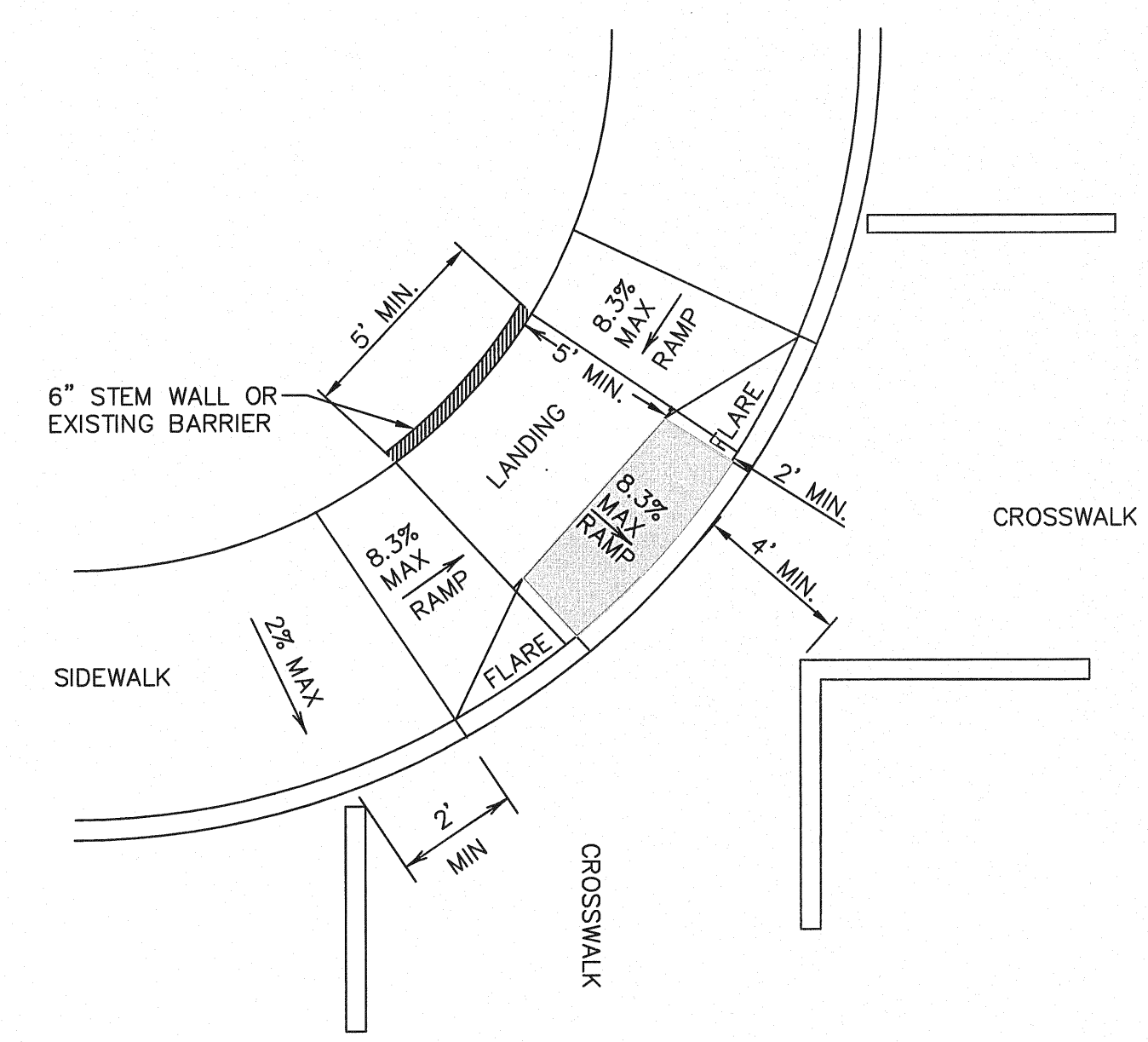
7 COMBINATION CURB RAMPS (TYPE VII)
SCALE: N.T.S.



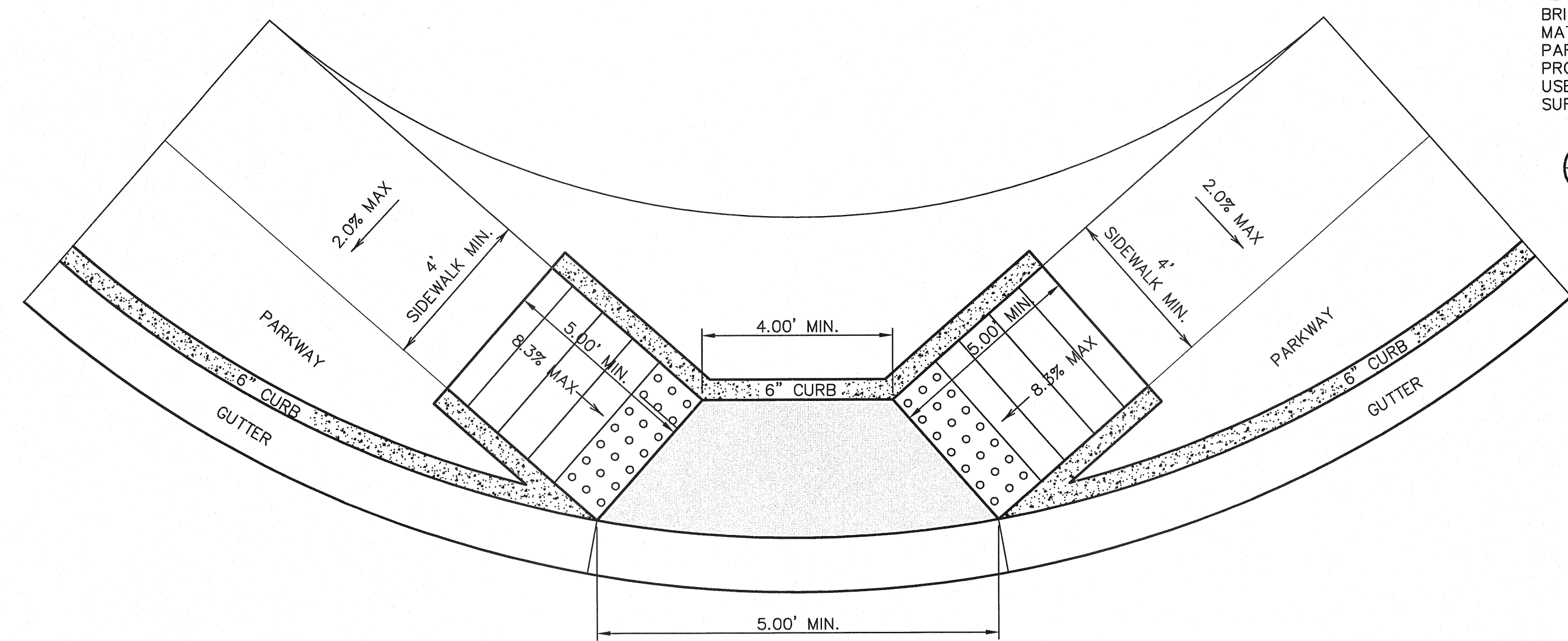
2 PARALLEL CURB RAMP (TYPE II)
SCALE: N.T.S.



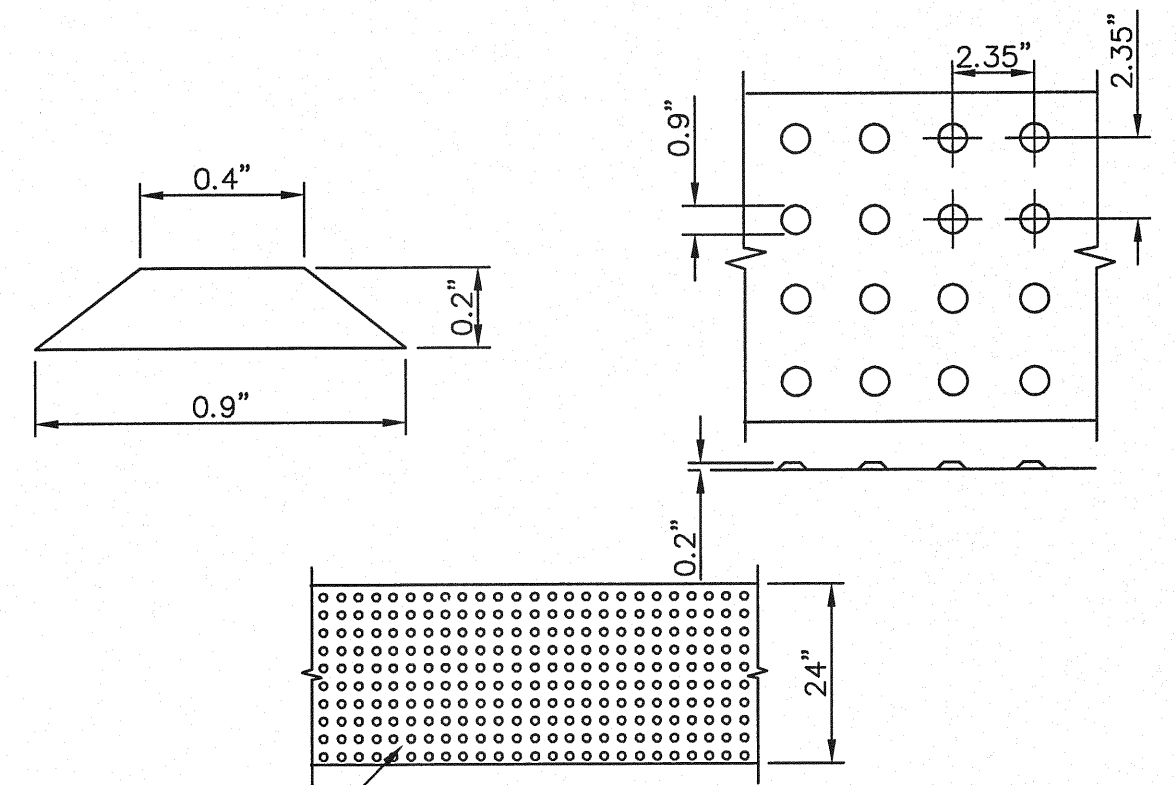
5 DIAGONAL CURB RAMP (FLARED SIDES) (TYPE V)
SCALE: N.T.S.



3 DIAGONAL COMBINATION CURB RAMP (TYPE III)
SCALE: N.T.S.



6 DIRECTIONAL RAMP @ INTERSECTION
SCALE: N.T.S.

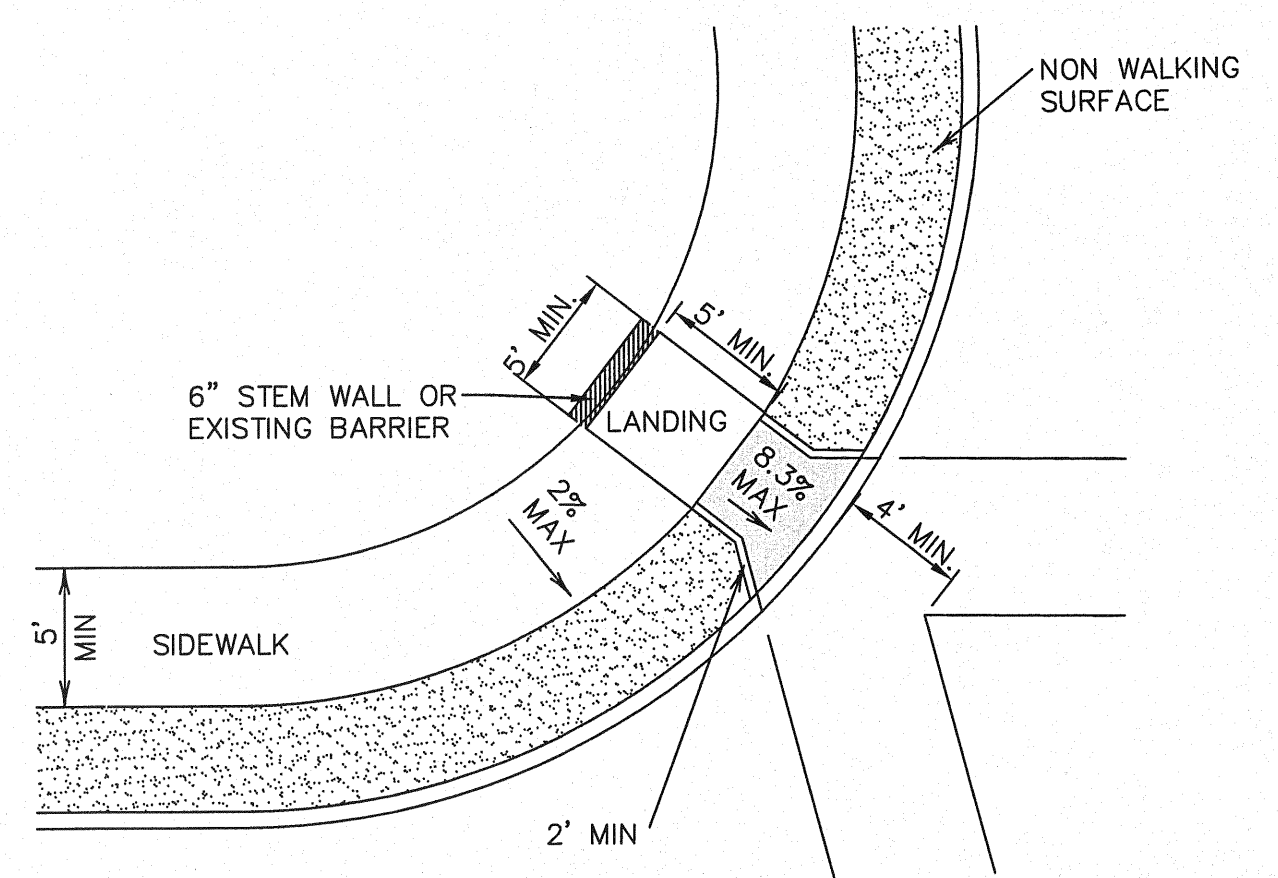


DOME SIZE AND SPACING. TRUNCATED DOMES SHALL HAVE A DIAMETER OF NOMINAL 0.9 INCHES (23 mm) AT THE BOTTOM, A DIAMETER OF 0.4 INCH (10 mm) AT THE TOP, A HEIGHT OF NOMINAL 0.2 INCHES (5 mm), AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 mm) MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.

DOME ALIGNMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES. DETECTABLE WARNING SURFACES SHALL EXTEND 24 INCHES (610 mm) MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP, LANDING, OR BLENDED TRANSITION.

CONTRAST. THERE SHALL BE A MINIMUM OF 70 PERCENT CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "RED BRICK" COLOR, UNLESS OTHERWISE DIRECTED BY THE OWNER. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE. CONTRAST SHALL BE PROVIDED BY PLACING AND MIXING TINT IN THE PLASTIC CONCRETE USED FOR THE DETECTABLE WARNING SURFACE. NO PAINTING OF SURFACE SHALL BE PERMITTED.

8 TRUNCATED DOME SIZE AND SPACING
SCALE: N.T.S.



9 DIAGONAL CURB RAMP (RETURNED CURB) (TYPE VI)
SCALE: N.T.S.

GENERAL NOTES:

LEGEND

DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 IN, A NOMINAL HEIGHT OF 0.2 IN AND A CENTER TO CENTER NOMINAL SPACING OF 2.35 IN, AND SHALL NOT BE STAGGERED. THE SURFACE SHALL HAVE A COLOR CONTRAST VISUALLY WITH ADJOINING SURFACES.

- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- THE MINIMUM SIDEWALK WIDTH IS 5'. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 3' SIDEWALK WITH 5' X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200 FT IS REQUIRED.
- LANDINGS SHALL BE 5' X 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
- MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' X 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
- CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. OTHERWISE, FLARED SIDES SHALL BE PROVIDED.
- ALL CONCRETE SIDEWALK SURFACES SHALL RECEIVE A LIGHT BROOM FINISH UNLESS NOTED OTHERWISE IN THE PLANS.
- RAMP TEXTURES MUST CONSIST OF TRUNCATED DOMED SURFACES. TEXTURES ARE REQUIRED TO BE DETECTABLE UNDERFOOT. SURFACES THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED. REFER TO TRUNCATED DOME DETAIL.
- CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND RAMP SURFACES IS 2%.
- ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) PREPARED AND ADMINISTERED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
- ALL ADA RAMPS TO BE BUILT BY DEVELOPER.

REFERENCES - BENCHMARKS	BY
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASCO ALEGRE CIRCLE AND PASCO LINDO DRIVE	DATE
ELEVATION = 4003.10 (CITY DATUM)	REVISIONS

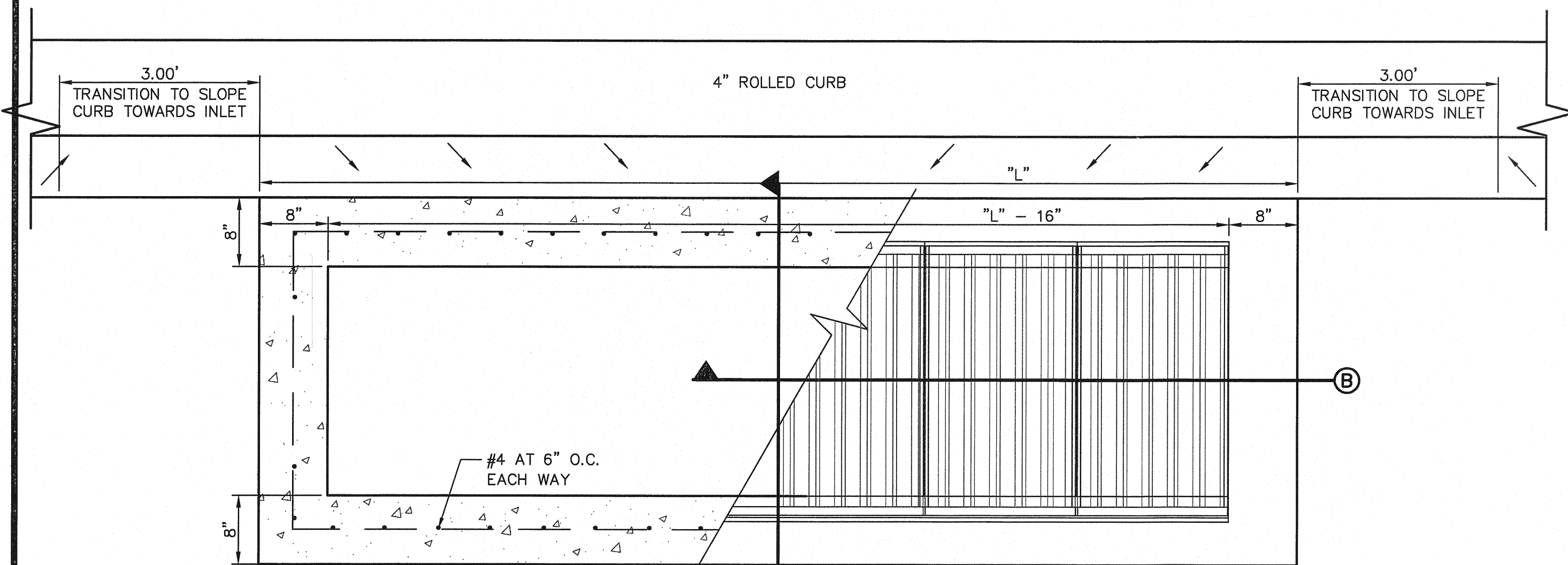
CS&A
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4584
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.csandap.com

ENGINEER'S SEAL
JORG L. AZGARATE
8075

SCALE	N/A
Horizontal	N/A
Vertical	N/A
Contour Interval	N/A
DATE	JUNE 2010
DESIGN BY	F.Z.
DRAWN BY	J.L.A.
CHKD. BY	J.L.A.
APPVD. BY	J.L.A.
JOB No.	2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
STANDARD DETAILS
(SHEET 3 OF 3)
SHEET NO.



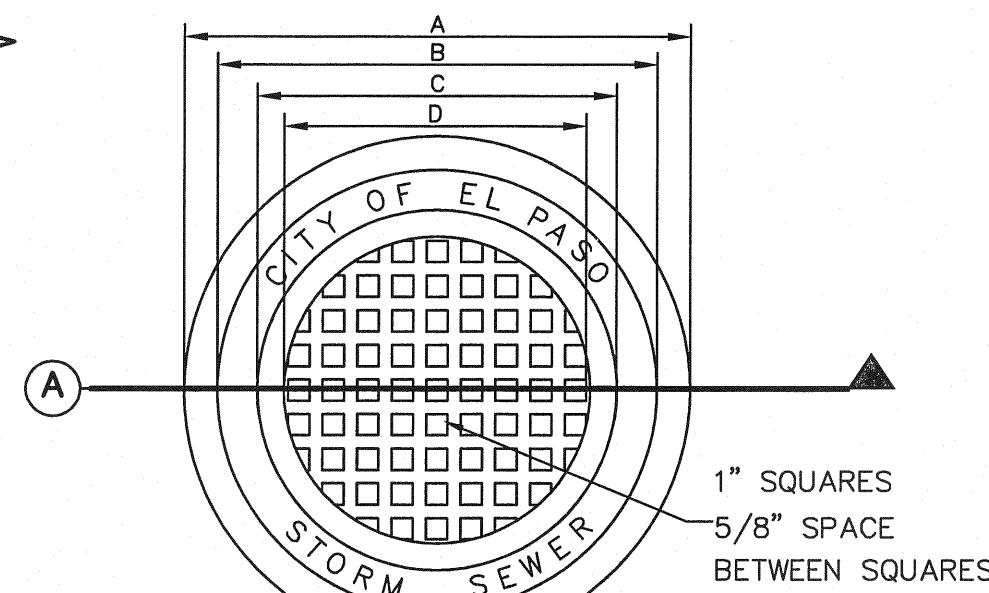
NUMBER OF GRATES	"L" INCHES	CAPACITY* CFS
2	5'-1 1/8"	9.436
3	7'-1 1/8"	14.155
4	8'-9 7/8"	18.873
5	10'-8"	11.592

* THESE CAPACITIES CORRESPOND TO A CLOGGING FACTOR OF 0.5

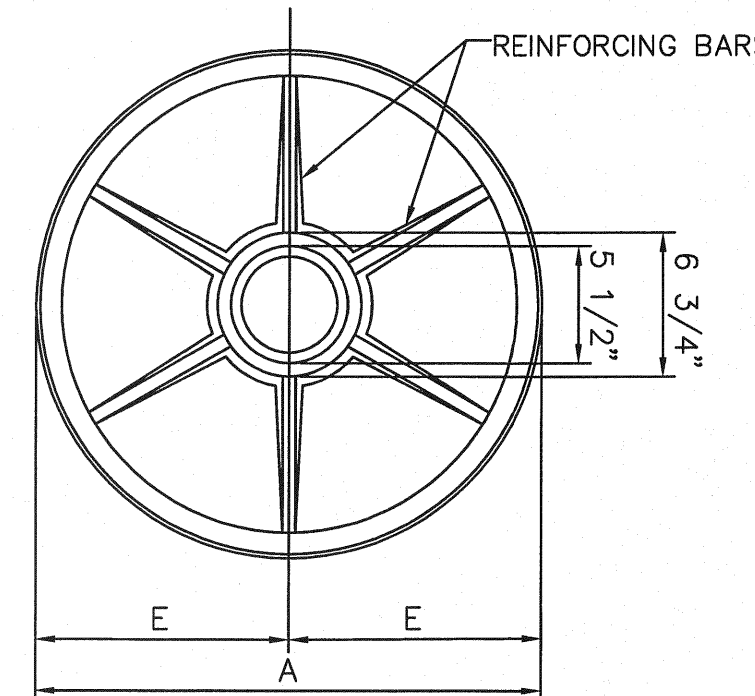
NOTES:

- GRATES TO BE PERPENDICULAR TO TRAFFIC
- CONCRETE TO BE 3,000 PSI (MINIMUM) CORE TEST @ 28 DAYS.
- H=20' MAXIMUM
- CONTRACTOR SHALL ENSURE THAT NO BIRD BATHS ARE CREATED IN THE ROLLED CURB TRANSITION.
- SEE DRAINAGE PLAN FOR APPROVED PIPE DIAMETER.

PLAN

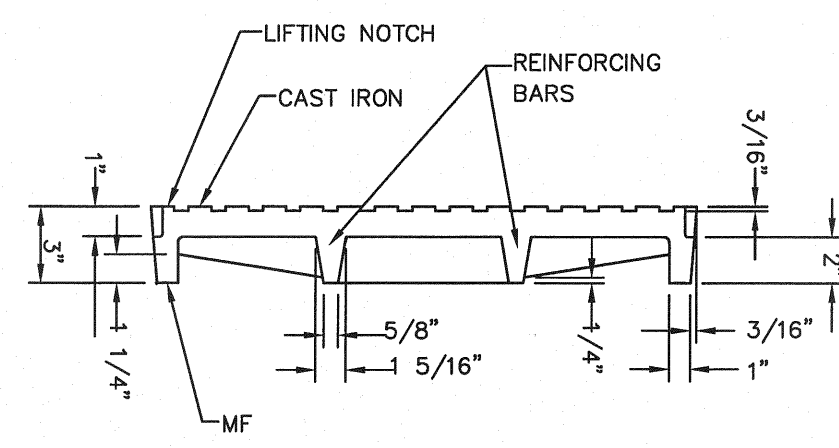


MANHOLE COVER TOP VIEW
SCALE: 3" = 4'-0"



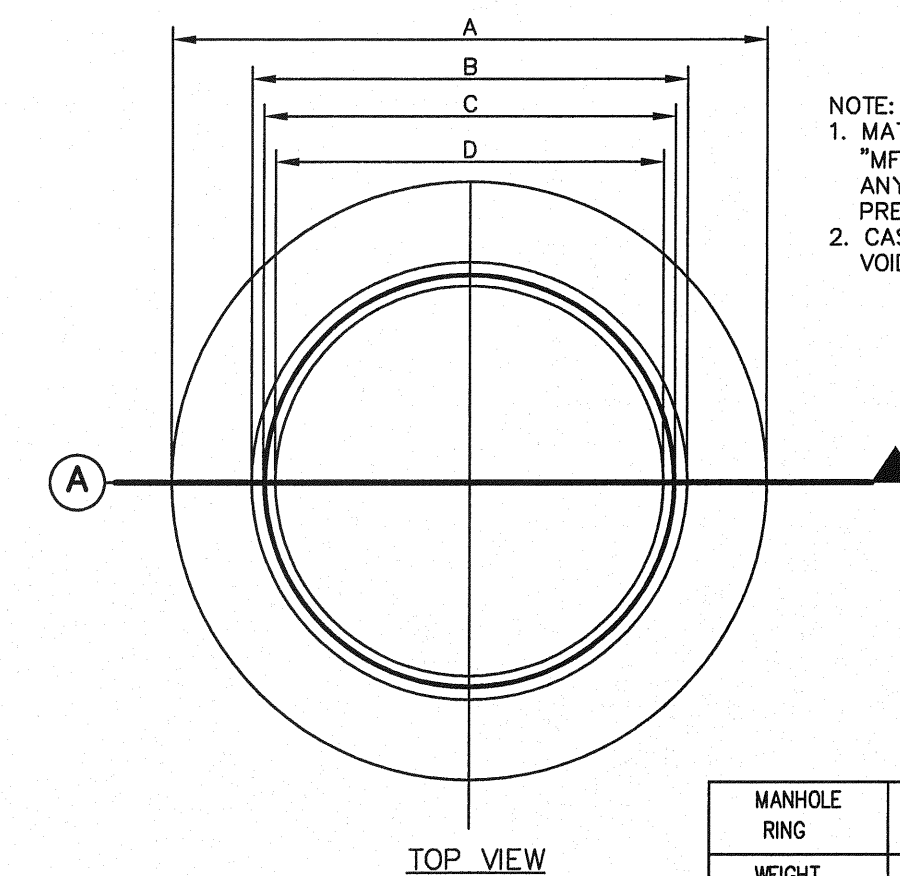
BOTTOM VIEW

- GENERAL NOTES:**
- MATCHING SURFACES MARKED "MF" TO BE MACHINE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 - CASTING TO BE SMOOTH AND VOID OF AIR HOLES.



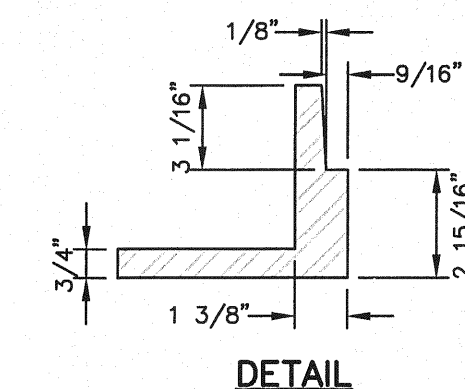
SECTION A-A

MANHOLE COVER	48" MANHOLE	72" MANHOLE
WEIGHT	175 LBS.	310 LBS.
A	1'-11 3/4"	2'-7 1/4"
B	1'-8 5/8"	2'-4 1/8"
C	1'-4 7/8"	2'-3 3/8"
D	1'-2 3/8"	1'-9 7/8"
E	11 7/8"	1'-3 5/8"

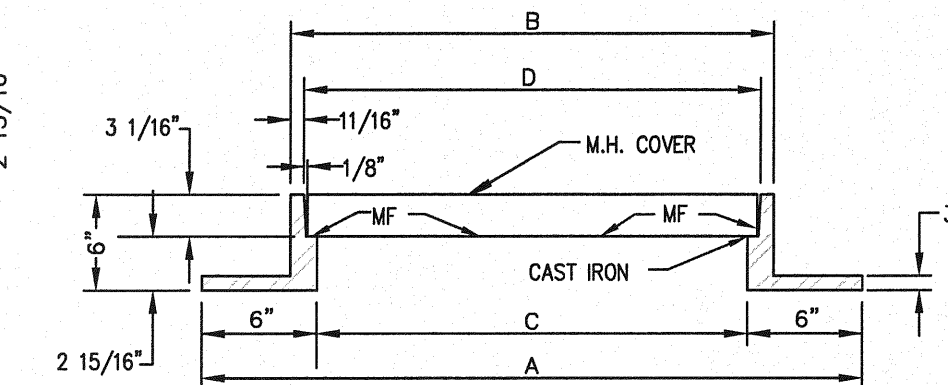


MANHOLE RING TOP VIEW

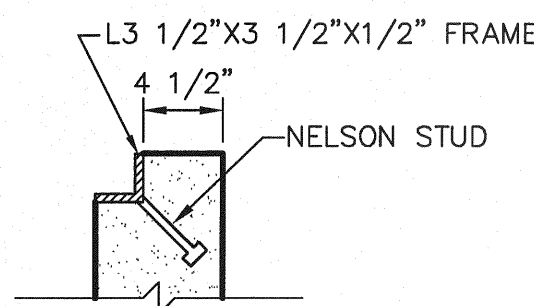
MANHOLE RING	48" MANHOLE	72" MANHOLE
WEIGHT	165 LBS.	225 LBS.
A	2'-10 1/2"	3'-6"
B	2'-1 1/4"	2'-8 3/4"
C	1'-10 1/2"	2'-6"
D	1'-11 7/8"	2'-7 3/8"



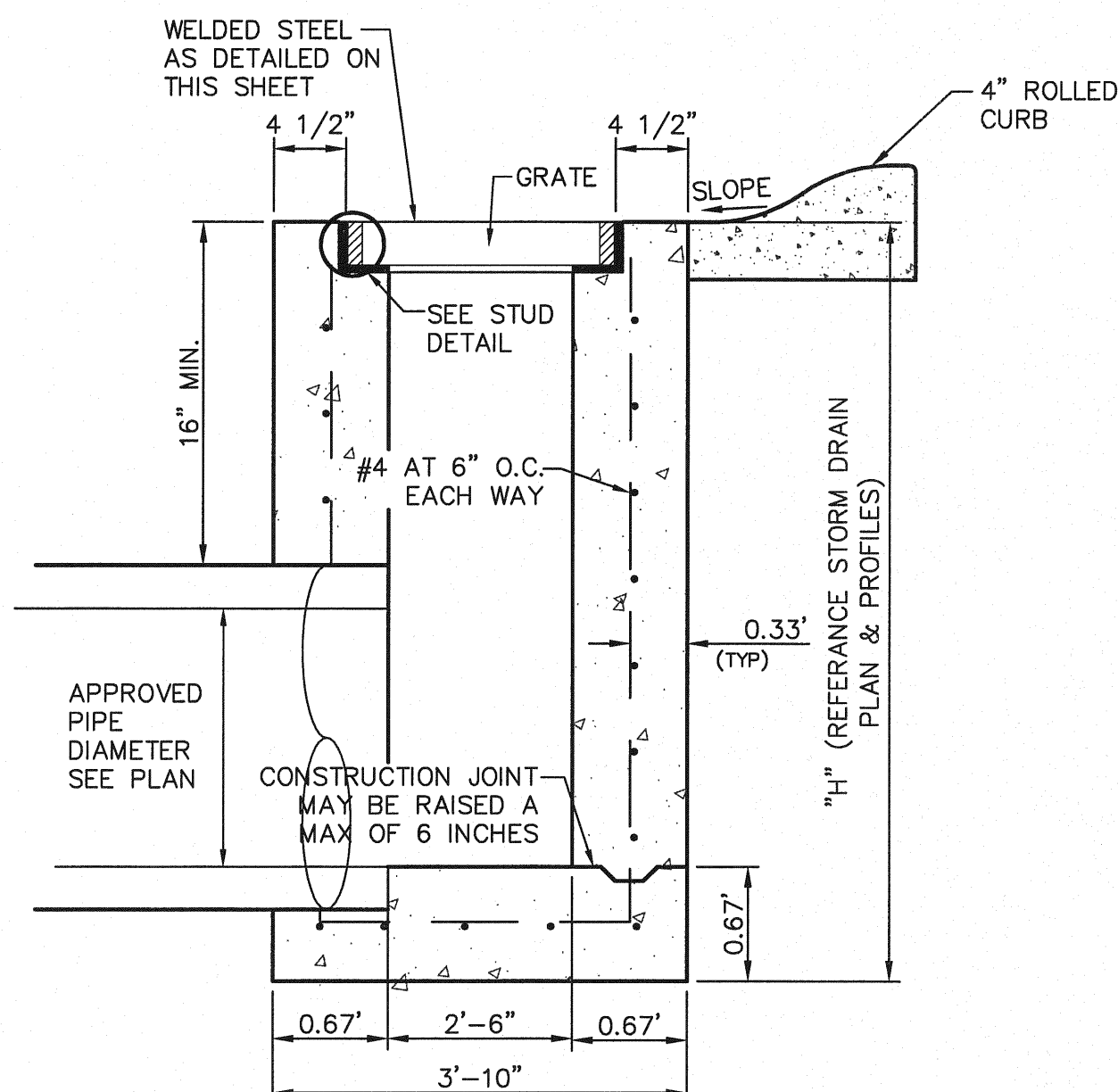
DETAIL



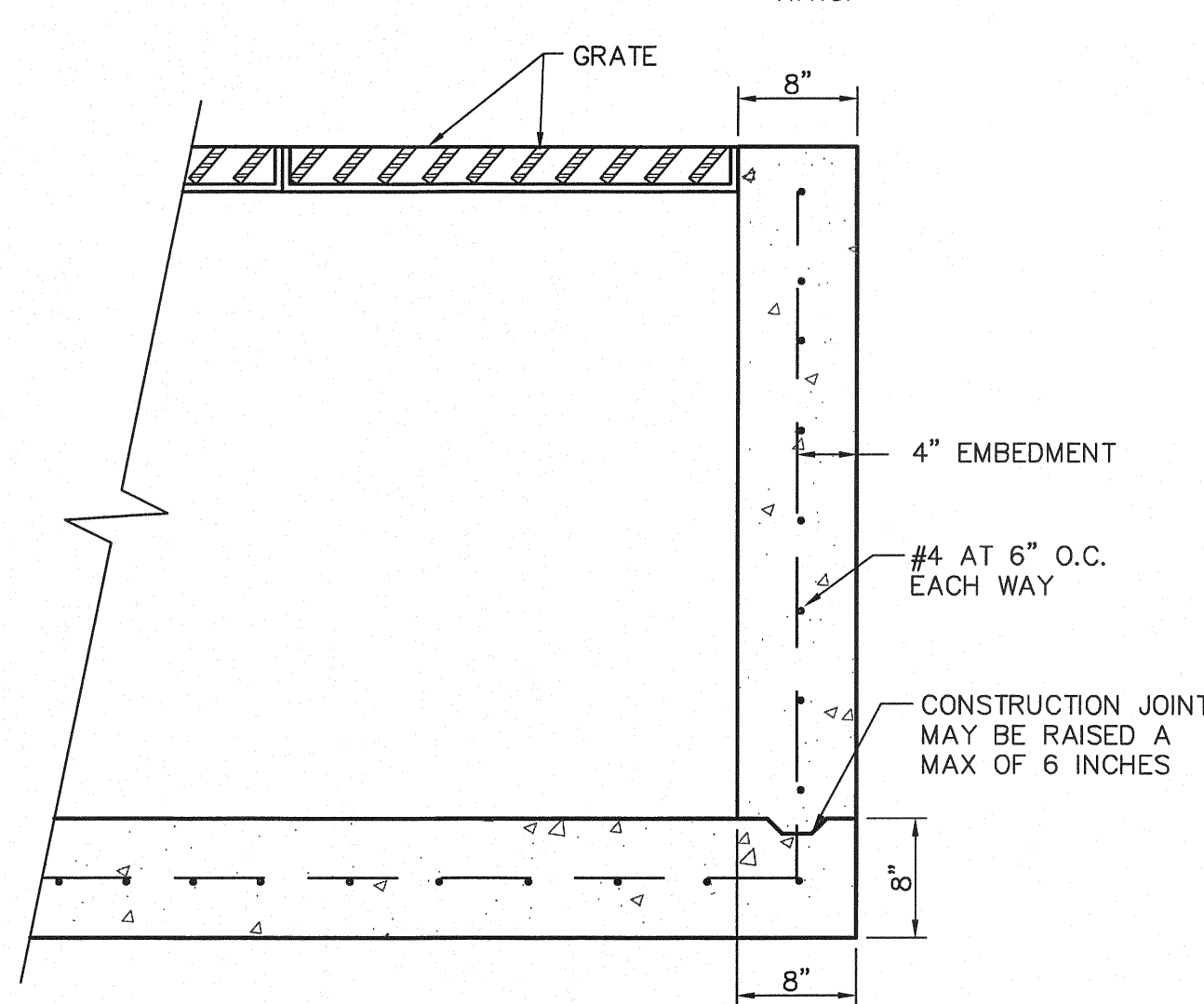
SECTION A-A



STUD DETAIL
N.T.S.



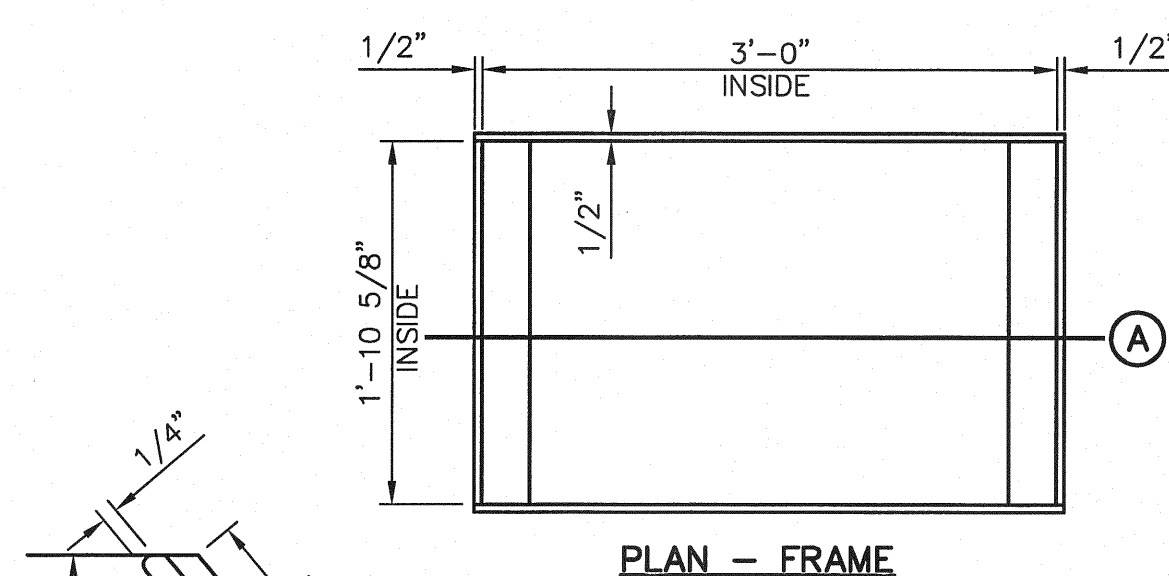
SECTION A-A



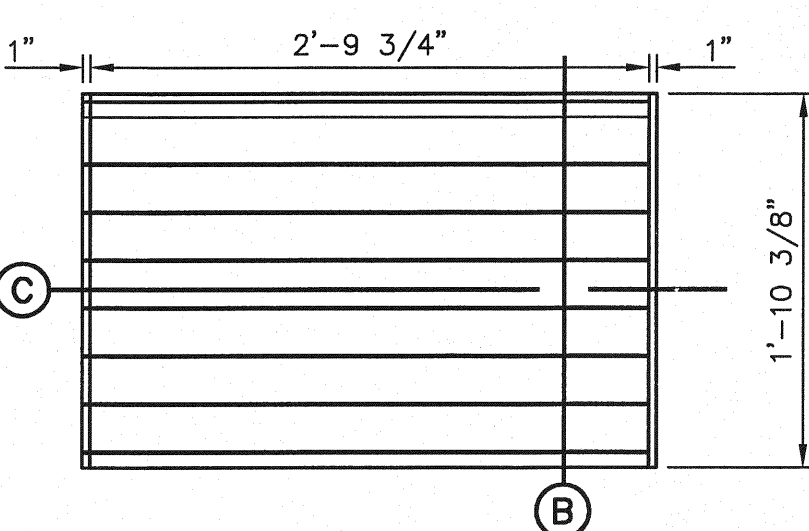
SECTION B-B

2
18
DROP INLET (TYPE III) DETAILS
SCALE: N.T.S.

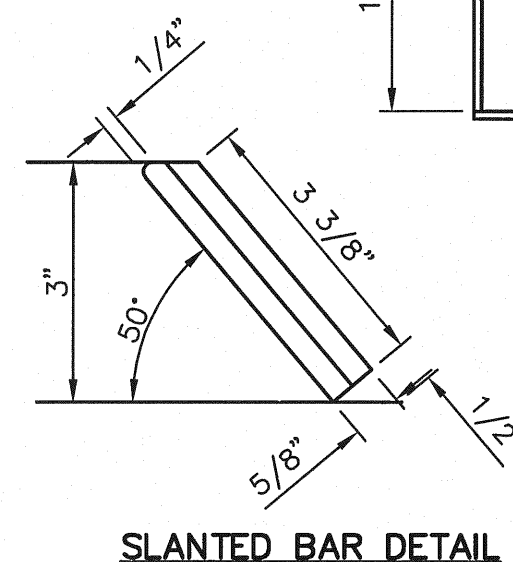
1
18
MANHOLE RING AND COVER DETAILS
SCALE: AS SHOWN



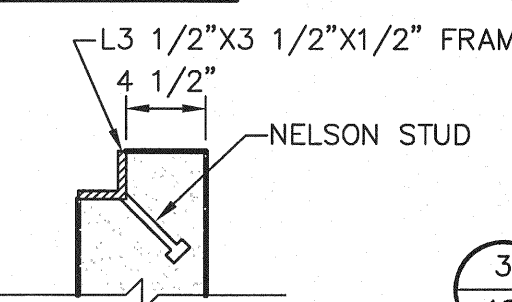
PLAN - FRAME



PLAN - GRATE



SLANTED BAR DETAIL



STUD DETAIL

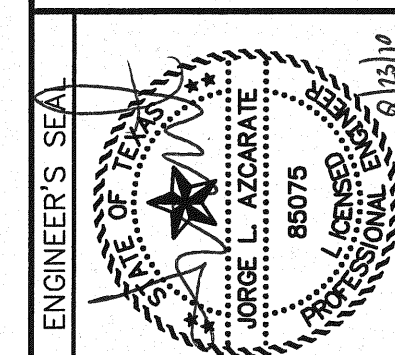
3
18
GRATE AND FRAME DETAILS
SCALE: 1" = 1'-0"

DROP INLET GENERAL NOTES:

- WELDED STEEL OR CAST GRATES AS DETAILED ARE ALL ACCEPTABLE GRATES. MIXING OF ALTERNATE TYPES OF GRATES ON THE SAME PROJECT WILL BE PERMITTED WITH THE APPROVAL OF THE COUNTY ENGINEER.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
- SHARP EDGES RESULTING FROM FABRICATION SHALL BE DULLED BY ANY ACCEPTABLE METHOD FOR SAFETY IN HANDLING.
- GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
- WELDED GRATES SHALL BE STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-183 OR OF CORROSION RESISTANT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-161 OR M-222 OR BE MADE OF OTHER APPROVED STEELS OF EQUAL QUALITY. MIXING GRADES OF STEEL ON THE SAME GRATE WILL NOT BE PERMITTED.
- GRATES MADE OF M-183 STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111 SPECIFICATIONS OR SHALL BE PAINTED WITH INORGANIC ZINC PAINTS, MEETING THE REQUIREMENTS OF CURRENT STANDARD SPECIFICATIONS.
- ALL WELDS SHALL HAVE A MINIMUM OF 1/4" FILLET AND SHALL CONFORM TO THE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND TO THE AWS STRUCTURAL WELDING CODE. ELECTRODES SHALL BE COMPATIBLE TO THE DIFFERENT GRADES OF STEEL THAT COMPRISE THE GRATE MEMBERS.
- CAST GRATES SHALL BE CAST STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-103, GRADE 65-35 OR OF DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ASTM A-536, SPECIAL GRADE 60-45, OR OF GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M-105, CLASS 35B OR ASTM A-48 CLASS 35B. THE SPECIFICATIONS OF GENERAL APPLICATION FOR CAST STEEL GRATES SHALL BE AASHTO M-103 SCOPE 1.2.1, GRADE N-1.
- FERROUS CASTINGS SHALL BE OF UNIFORM QUALITY, FREE OF BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR OTHER APPROVED CLEANING METHOD. AFTER CLEANING THEY SHALL BE COATED WITH ASPHALT BASE PAINT RESULTING IN A SMOOTH COATING, TOUGH AND TENACIOUS WHEN COLD, NOT TACKY OR BRITTLE.
- ALL CASTING SHALL BE MANUFACTURED TRUE TO PATTERN. COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
- ALL CONCRETE TO BE 3000 PSI. CHAMFER ALL EXPOSED EDGES 3/4". ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- MINIMUM CONCRETE COVER SHALL BE 1 1/2" FOR STEEL REINFORCING.
- EXPANSION MATERIAL TO BE 1/2" BITUMINOUS FIBER AND PLACED WHERE PROPOSED CONCRETE COMES IN CONTACT WITH ANY EXISTING OR PROPOSED CONCRETE OR MASONRY STRUCTURE.
- STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH TxDOT ITEM 446 "PAINT AND PAINTING"
- SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE AND GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
- GRATES WILL BE DEPRESSED 1" BELOW PROPOSED OR EXISTING GRADE.
- ALL REINFORCING BARS TO BE #4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
- INLETS TO BE DESIGNATED IN PLANS BY NUMBER OF GRATES REQUIRED.
- LOCATION OF SEWER PIPES SHOWN ELSEWHERE IN PLANS.
- TWO 3/8"x4" LONG CONCRETE ANCHOR STUDS REQUIRED FOR EACH SIDE OF FRAME, WHERE RESTING ON CONCRETE, USE NELSON STUDS OR EQUAL.
- THE GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.

DATE	REVISIONS	BY

CSA
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4664
4712 Woodrow Bohn, Ste. F, El Paso, TX 79924
Office: 915.541.5232 Fax: 915.541.5233 www.csaonline.com

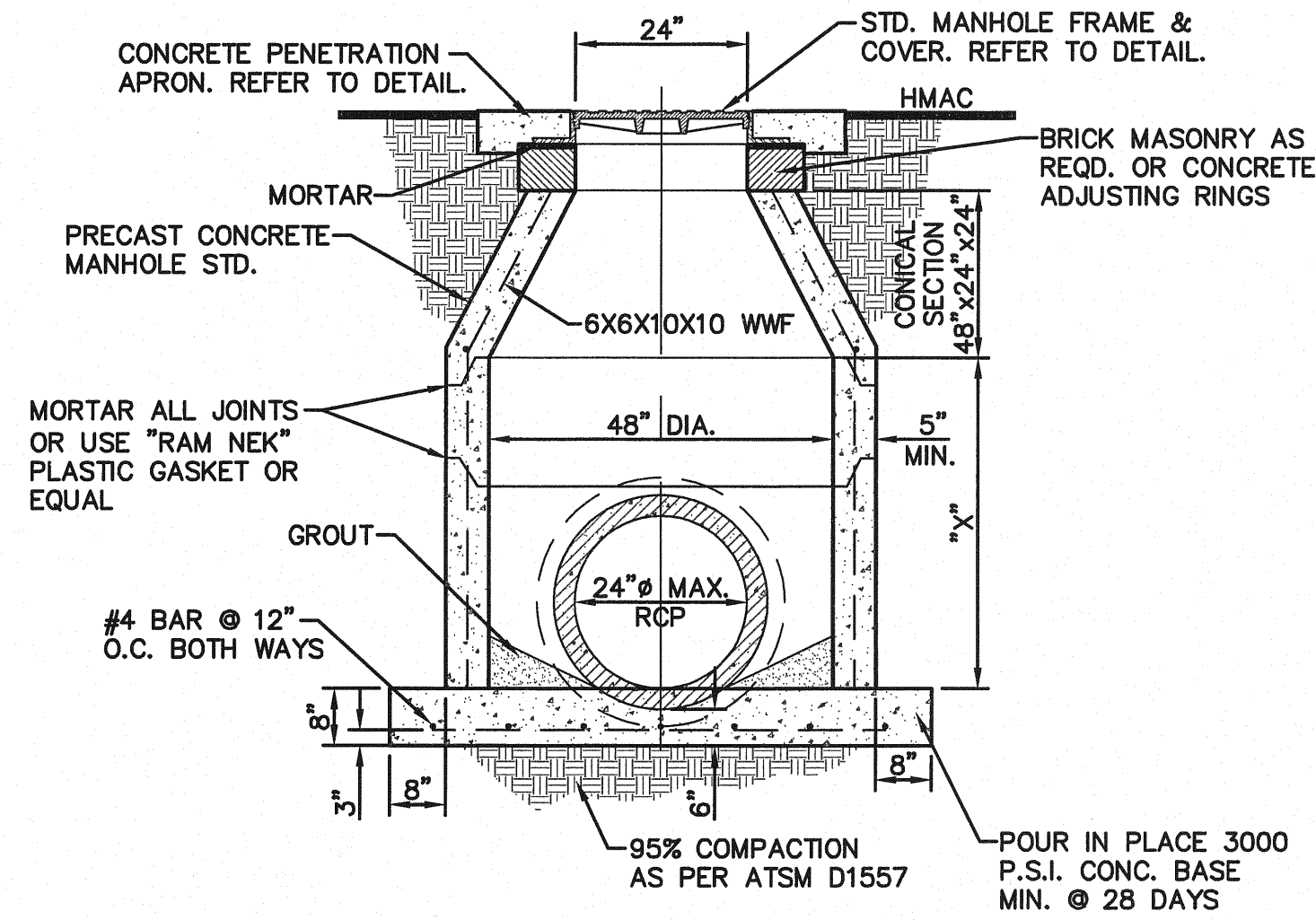


SCALE: N/A
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPROV. BY: J.L.A.
JOB No. 2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**DRAINAGE
DETAILS**
(SHEET 1 OF 2)
SHEET NO.

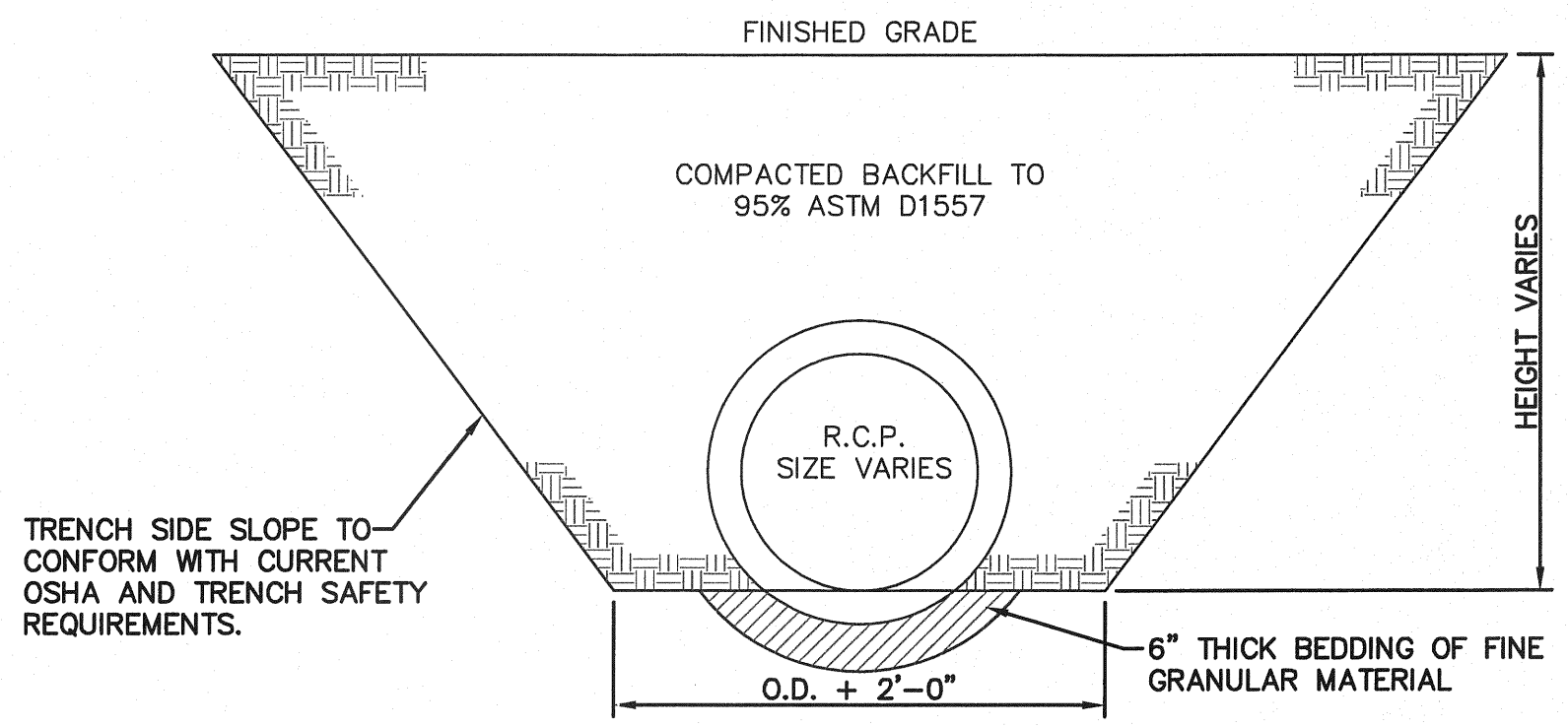
18



"X" = 48" DIA. x 12", 24", 36", OR 48"
 PRE-CAST LONG SECTIONS AS REQUIRED

NOTE:
 95% COMPACTION AS PER ASTM D-1557
 UNDER ALL CONCRETE STRUCTURES.

1
 18A 48" STANDARD MANHOLE DETAIL
 SCALE: N.T.S.



2
 18A STORM SEWER BEDDING DETAIL
 SCALE: 1/2" = 1'-0"

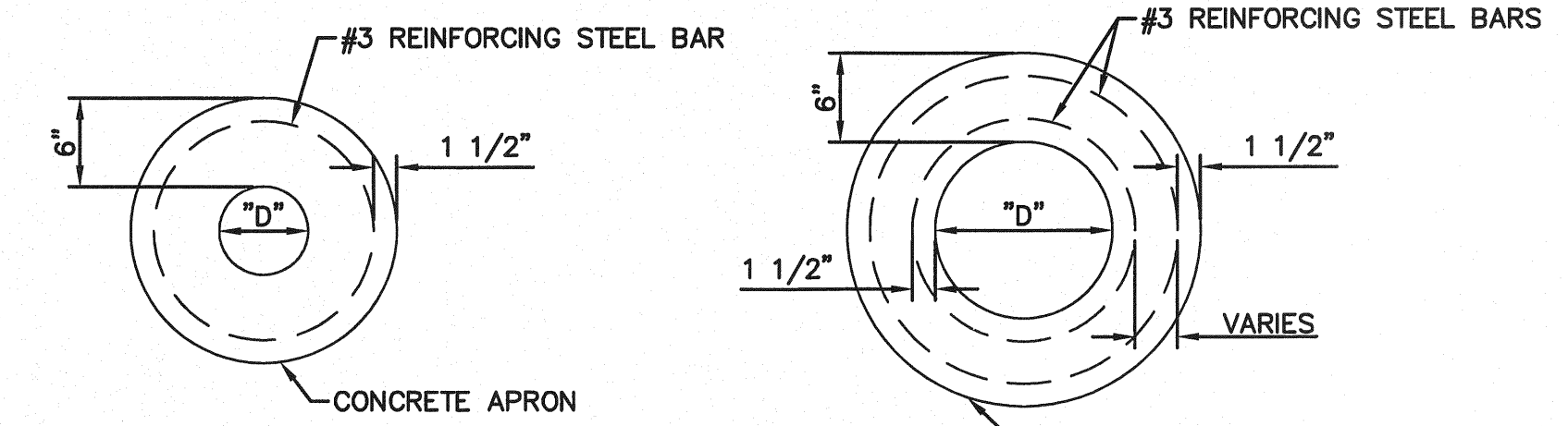
CONCRETE APRON FOR CIRCULAR PENETRATIONS IN ASPHALT PAVEMENTS				
"D" DIAMETER OF PENETRATION (INCHES)	"A" CONCRETE HORIZONTAL DIMENSION FROM PENETRATION (INCHES)	NUMBER OF NO. 3 REINFORCING STEEL BARS (QUANTITY)	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR (INCHES)	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR (INCHES)
0 TO 6.01	6	1	1 1/2	1 1/2
6.01 TO 18.01	8	2	1 1/2	1 1/2
18.01 AND OVER	12	3	1 1/2	1 1/2

CONSTRUCTION NOTES:

- ANY DISTURBED SUBGRADE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 95% DENSITY \pm 3% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
- ANY DISTURBED COARSE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 100% DENSITY \pm 2% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
- PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
- REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
- NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

GENERAL NOTES:

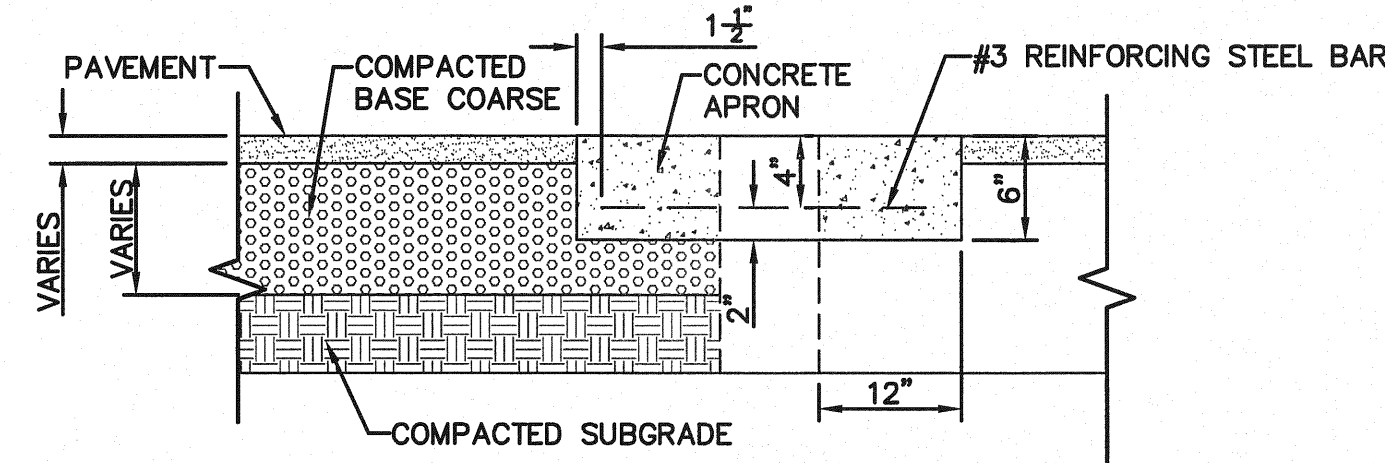
- THE PENETRATION APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED).
- TOPS OF PENETRATION APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE CITY ENGINEER.



PLAN VIEW - SINGLE REBAR

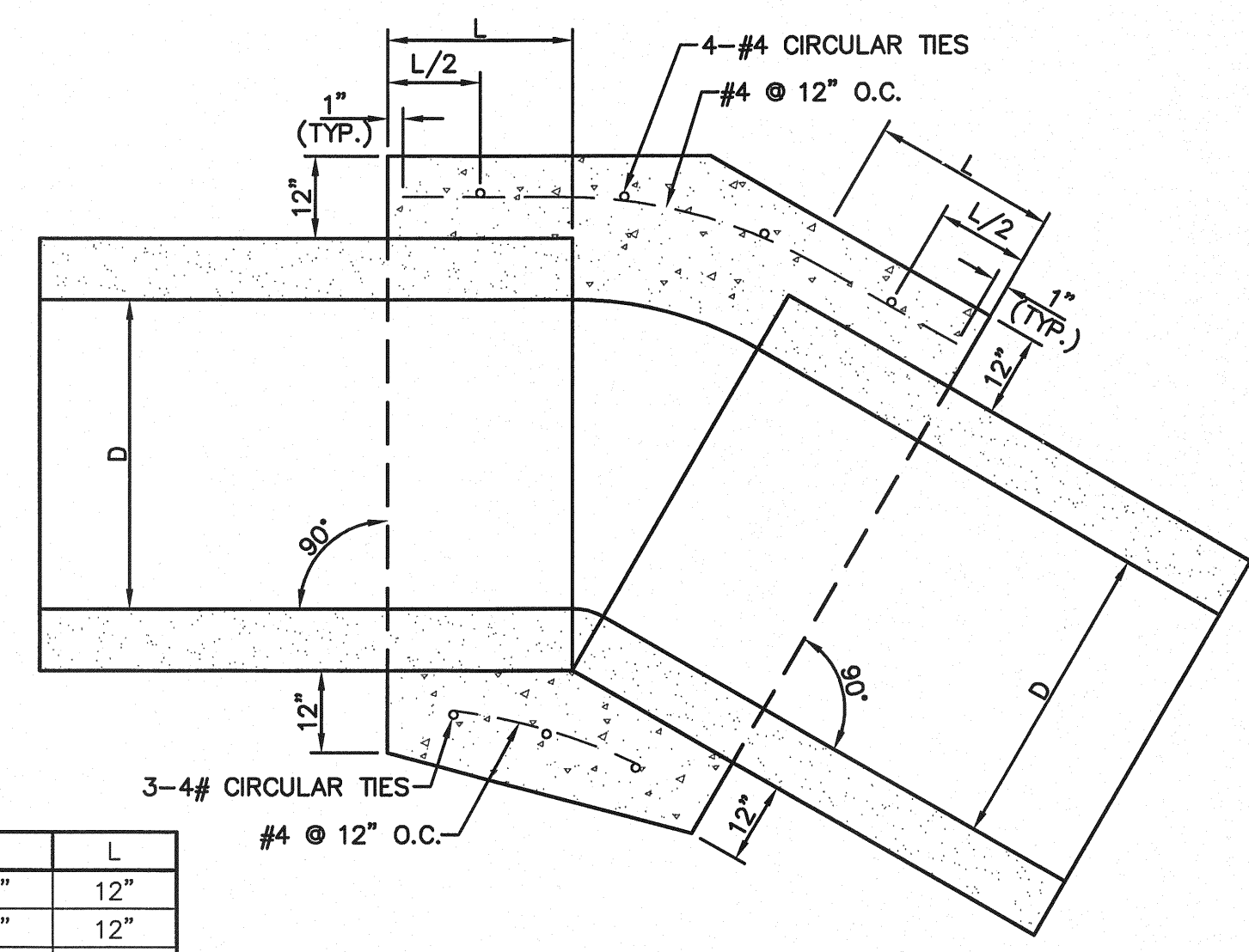
PLAN VIEW - 2 REBAR

PLAN VIEW - 3 REBAR



SECTION

3
 18A PENETRATION APRON DETAILS
 SCALE: N.T.S.



D	L
12"	12"
18"	12"
24"	12"
30"	18"
36"	18"
48"	18"
54"	18"
60"	21"
66"	21"

NOTES:

- A CONCRETE COLLAR IS REQUIRED WHERE PIPES CHANGE IN HORIZONTAL OR VERTICAL ALIGNMENT
- FOR PIPES 24" OR LESS IN DIAMETER, REINFORCE WITH W.W.M.

4
 18A CONCRETE ANCHOR COLLAR
 SCALE: 3/4" = 1'-0"

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

ENGINEER'S SEAL

SCALE: N/A

Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A

DATE: JUNE 2010
 DESIGN BY: F.Z.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-117-LD

PROJECT NAME

MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS

SHEET TITLE

DRAINAGE DETAILS

(SHEET 2 OF 2)

SHEET NO.

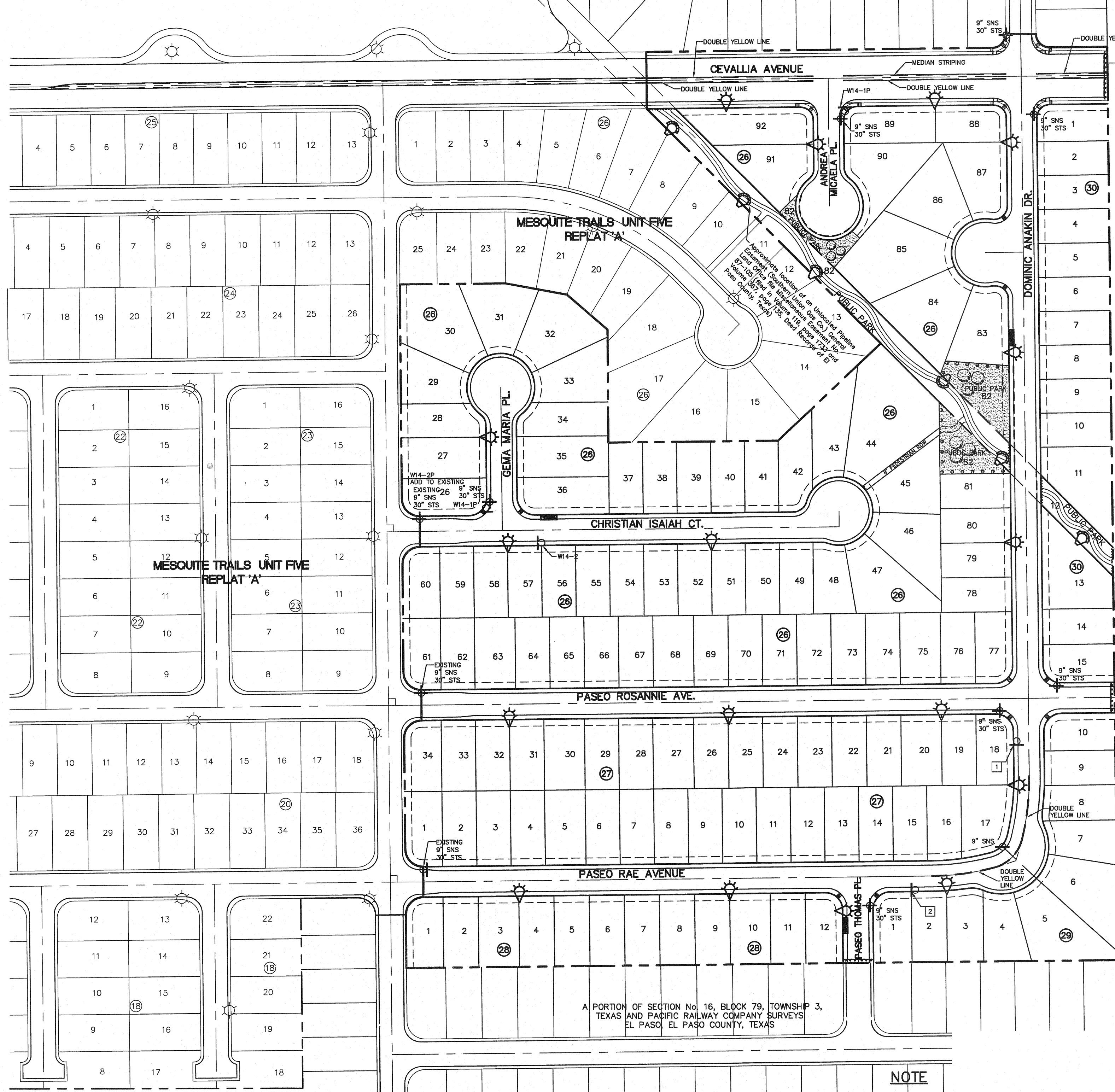
18A

OF 24

BURNING MESQUITE PARK

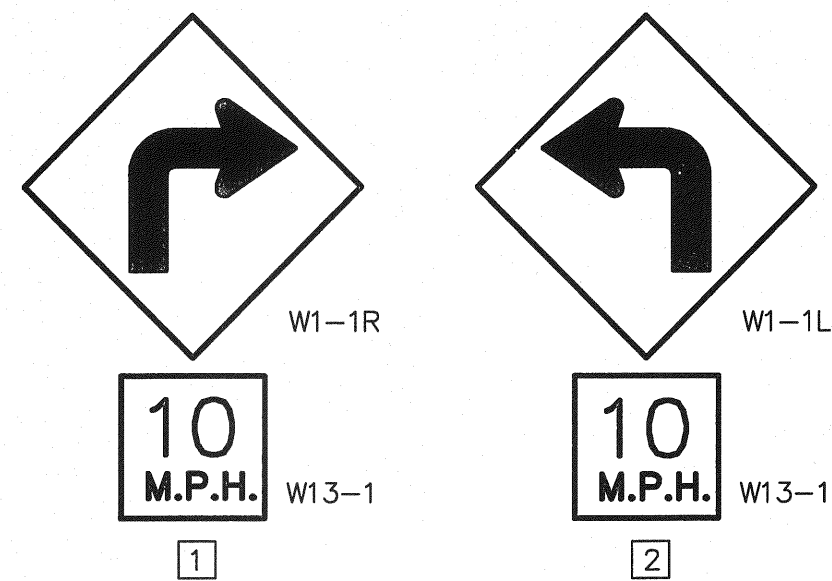
A PORTION OF SECTION No. 16, BLOCK 79, TOWNSHIP 3, TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS EL PASO, EL PASO COUNTY, TEXAS

A PORTION OF SECTION No. 15, BLOCK 79, TOWNSHIP 3, TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS EL PASO, EL PASO COUNTY, TEXAS VOLUME 2004, PAGE 2971



NOTE

1. TRAFFIC STREET SIGNS MUST BE OF HIGH INTENSITY REFLECTIVE SHEETING.



NOTE:

SIGNS SHOULD COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

SIGNS DETAIL
SCALE: N.T.S.

ILLUMINATION PLAN

SCALE: 1" = 100'

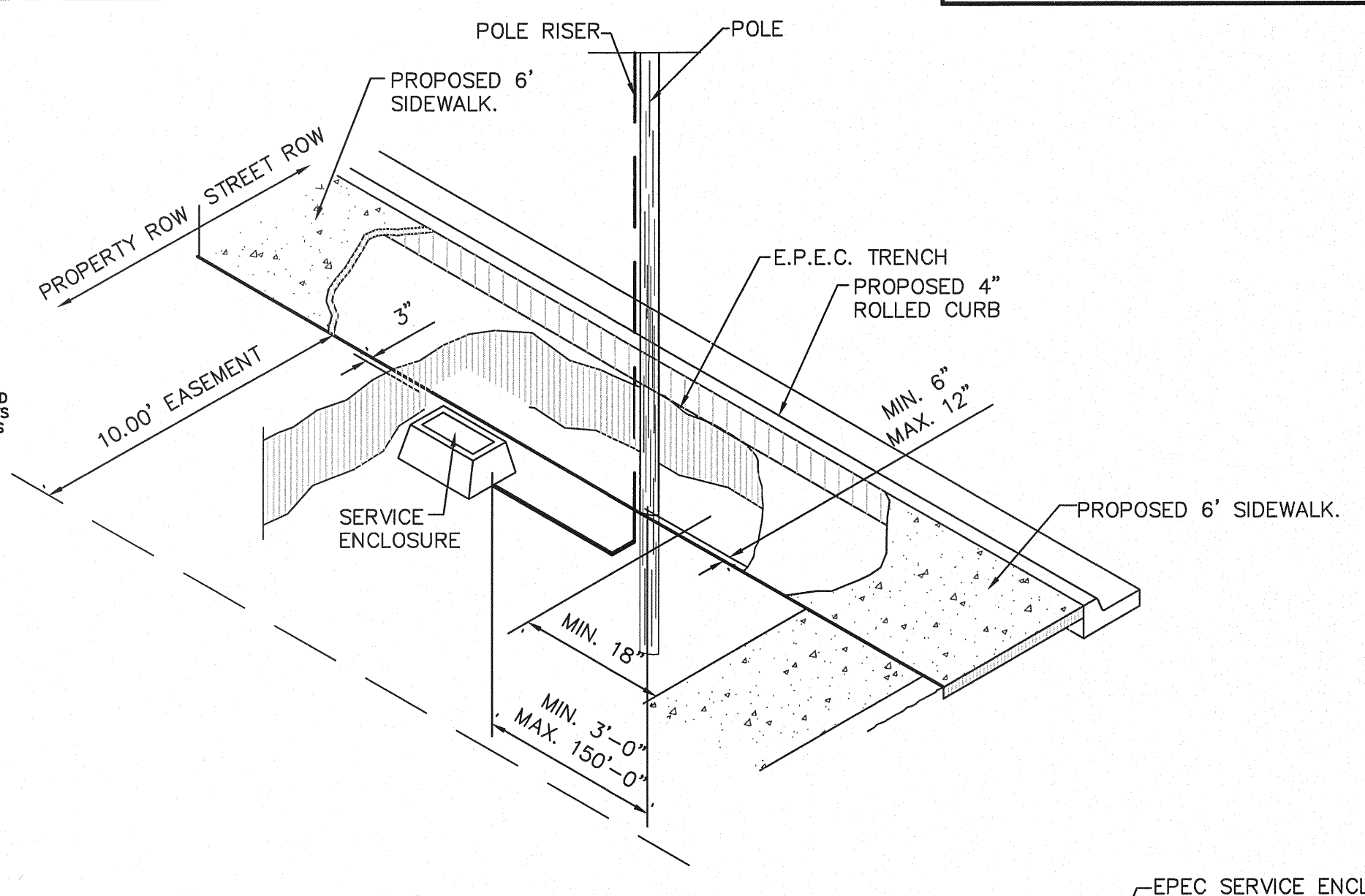


UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750 (AFTER HOURS) (915) 240-3220

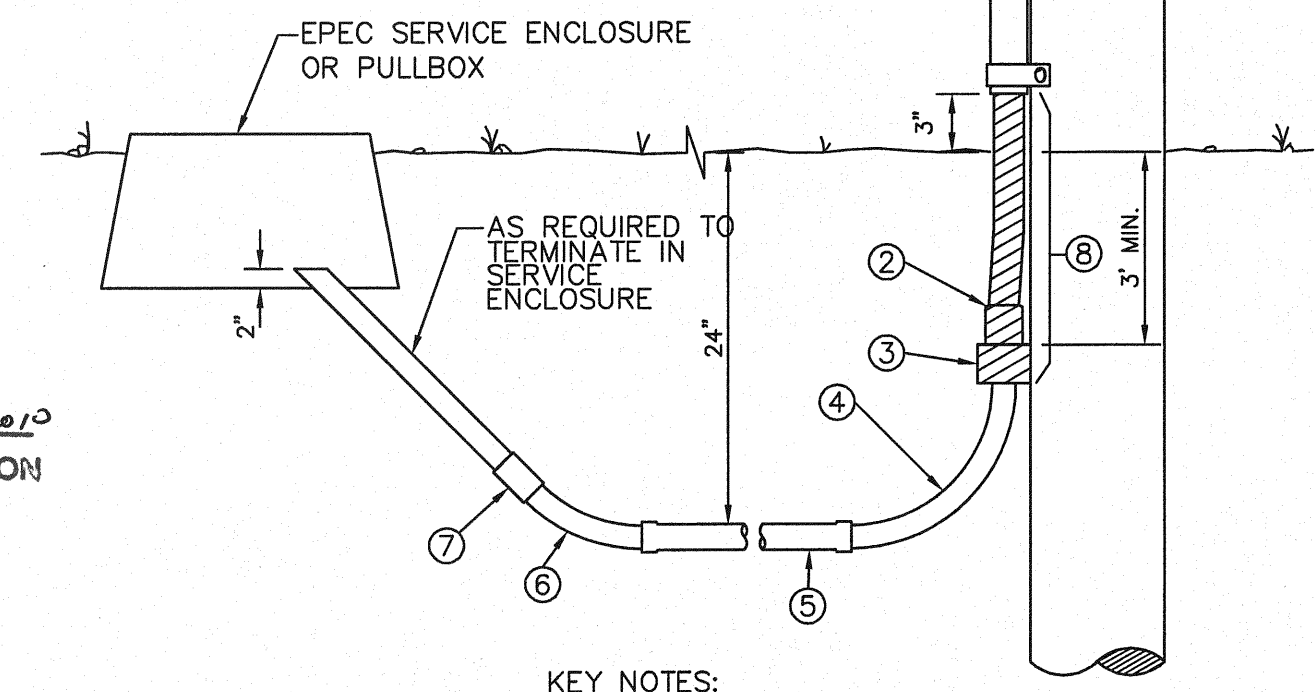
WARNING! BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

- LEGEND:**
- EXISTING RESIDENTIAL STREET LIGHT
 - PROPOSED RESIDENTIAL STREET LIGHT
 - PROPOSED PARK LIGHTS. (SEE SHEET 21 FOR DETAILS)
 - PROPOSED SIGN
 - PROPOSED 9" STREET NAME SIGN (TWO SIGNS)
 - PROPOSED 9" STREET NAME AND 30" STOP SIGN AND DEAD END SIGN
 - PROPOSED N.D.B.C.U. MAIL BOX

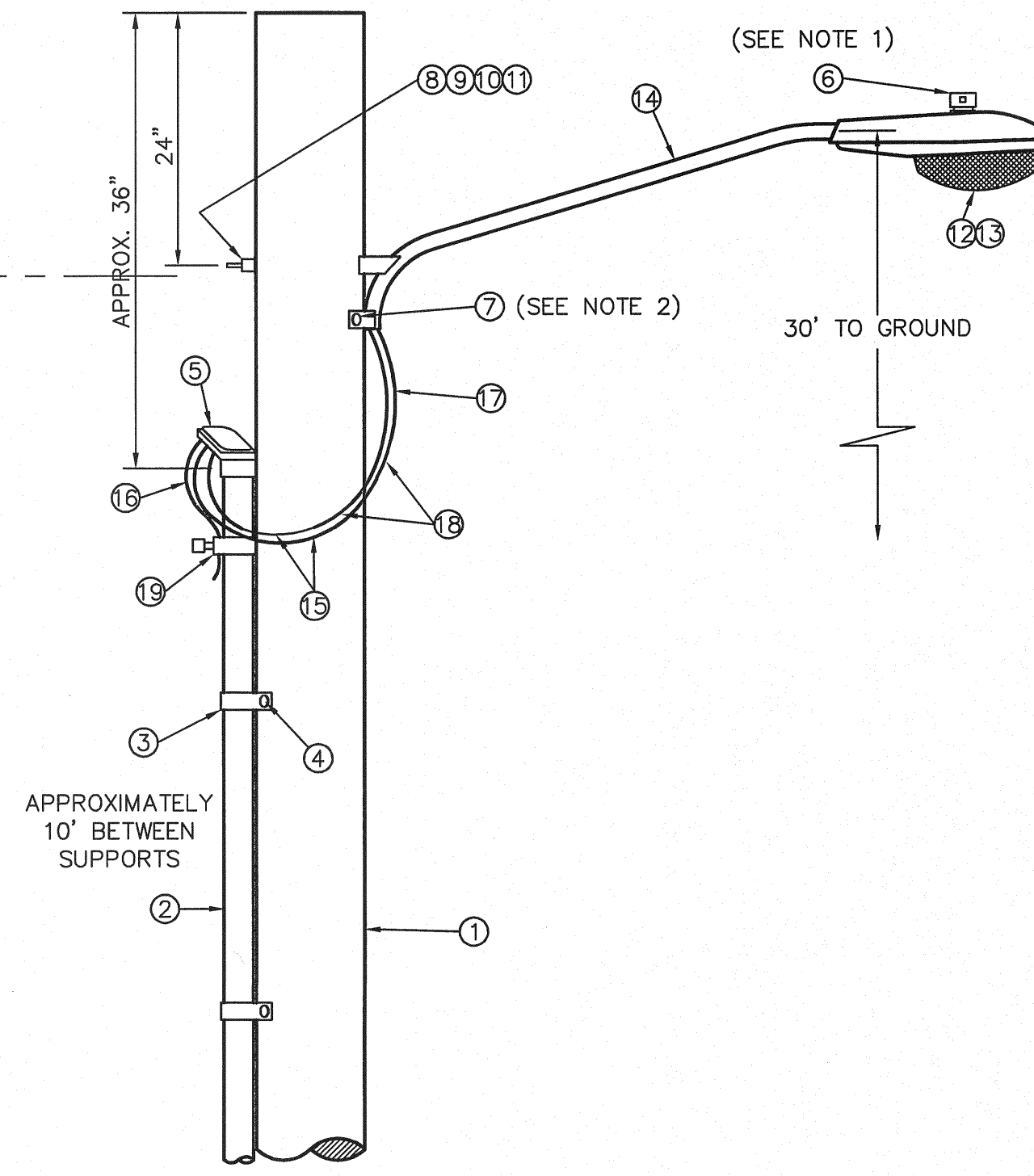


POLE LOCATION DETAIL
SCALE: 1" = 5'-0"

ACCEPTED:
BY: *[Signature]* DATE: 12 Oct 2010
DEPARTMENT OF TRANSPORTATION
CITY OF EL PASO



- KEY NOTES:**
- 1/2" GALVANIZED RIGID CONDUIT
 - REDUCER 1" TO 1/2" BUSHING
 - 1" PVC FEMALE ADAPTER
 - 1" PVC 90° ELBOW
 - 1" PVC CONDUIT
 - 1" PVC 45° ELBOW
 - 1" PVC COUPLING
 - TAPE 1/2" RIGID CONDUIT (6")
- RESIDENTIAL STREET LIGHT WOOD POLE**
SCALE: N.T.S.



RESIDENTIAL STREET LIGHT WOOD POLE
SCALE: N.T.S.

ITEM NO.	DESCRIPTION	STOCK NO.	QTY.
1	POLE, 35 FT.-CLASS IV	009-035	1
2	GALVANIZED RIGID 1/2" CONDUIT	017-292	3
3	PIPE STRAP FOR 1/2" CONDUIT, 2-HOLE	017-334	7
4	LAG BOLT, 1/4" X 2"	002-330	6
5	WEATHERHEAD, 1/2" CONDUIT	017-293	1
6	PHOTOCELL, 240V-SEE NOTE 1	021-225	1
7	LAG BOLT, 1/2" X 4"	002-370	2
8	MACHINE BOLT, 5/8" X 8"	002-450	1
9	SQUARE GALV. WASHER, 2-1/4" X 2"-1/4"	002-760	1
10	COIL-SPRING WASHER, 5/8"	002-786	1
11	LOCKNUT, 5/8"	002-705	1
12	LUMINAIRE, 100W H.P.S.	021-335	1
13	HPS LAMP, 100W	021-085	1
14	MAST ARM, 6' X 1-1/4"	021-200	1
15	COPPER CABLE, #12, 19 STRAND, 600 V	013-665	
16	COPPER CABLE, #12, SOLID, 600 V, GREEN	013-701	
17	CABLE, #10, 2 CONDUCTOR, 600 V UF	013-600	8
18	SLEEVES, #12-10	005-140	2
19	GROUNDING CLAMP	021-215	1

KEY NOTES:

1. MOUNT SO THAT CONTROL FACES NORTH.
2. ITEM 7 SHALL NOT BE SPLICED INSIDE ITEM 5.

DESIGN NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
2. FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION, CALL EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT.
3. A GROUND ROD MUST BE USED.

csa
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM #4684
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.244.8322 Fax: 915.244.5253 www.csaengr.com

PROJECT NAME: MESQUITE TRAILS UNIT SIX SUBDIVISION IMPROVEMENTS

SHEET TITLE: ILLUMINATION PLAN

SHEET NO.: 19

OF 24

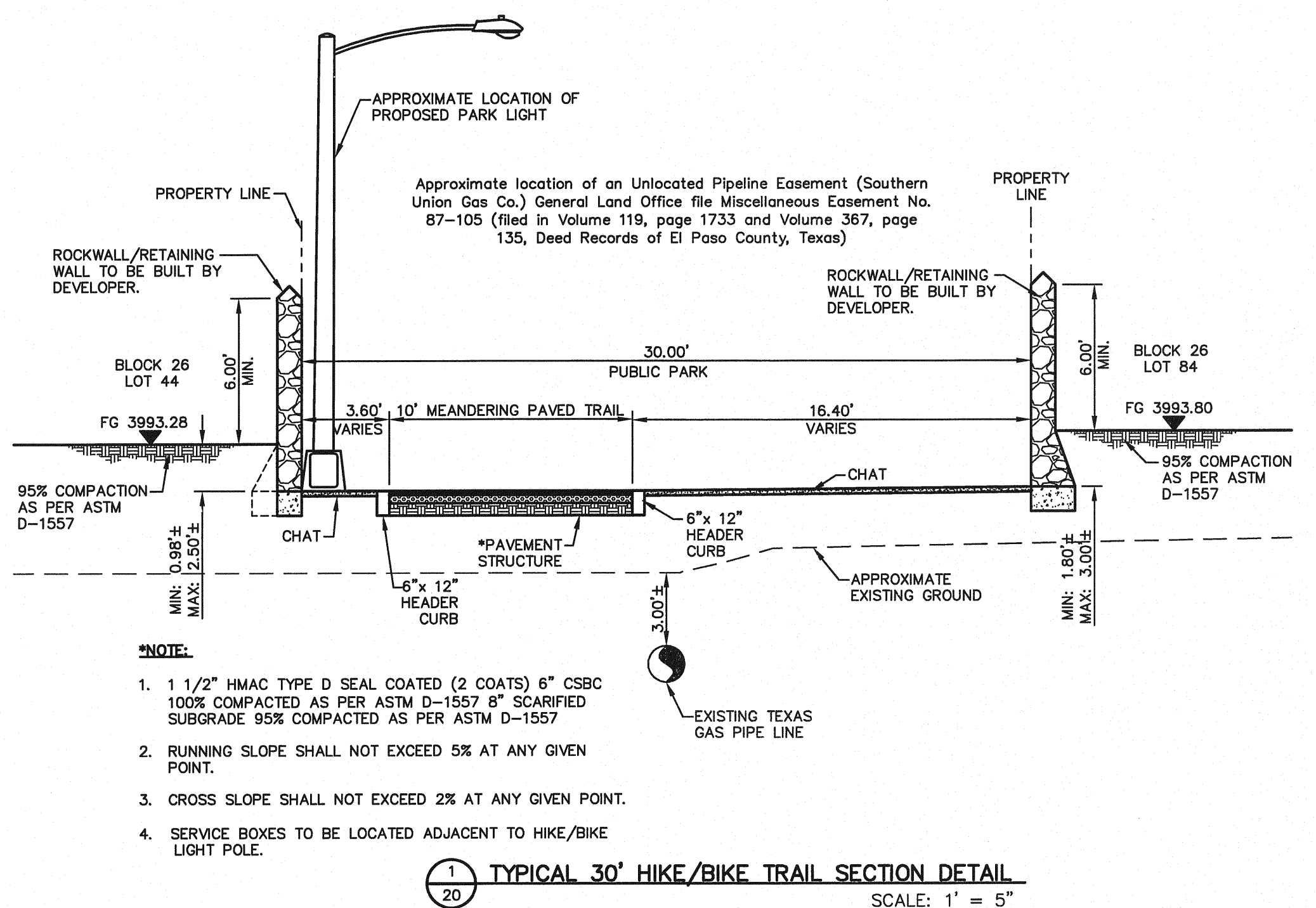
UTILITY LOCATOR SERVICES		
EL PASO ELECTRIC COMPANY	(915) 543-5720	
EL PASO ENERGY CORPORATION	(915) 496-5244	
EL PASO WATER UTILITIES	(915) 594-5500	
MCI SURVEILLANCE	(800) MCI-WORK	
TIME WARNER COMMUNICATIONS	(915) 772-1123	
TEXAS GAS SERVICE	(915) 680-7200	
SBC	(800) 545-6005	
AT&T	(800) 852-3786	
U.S. SPRINT TELECOMM	(800) 521-0579	
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750	
(AFTER HOURS)	(915) 240-3220	

WARNING!
BEFORE YOU DIG

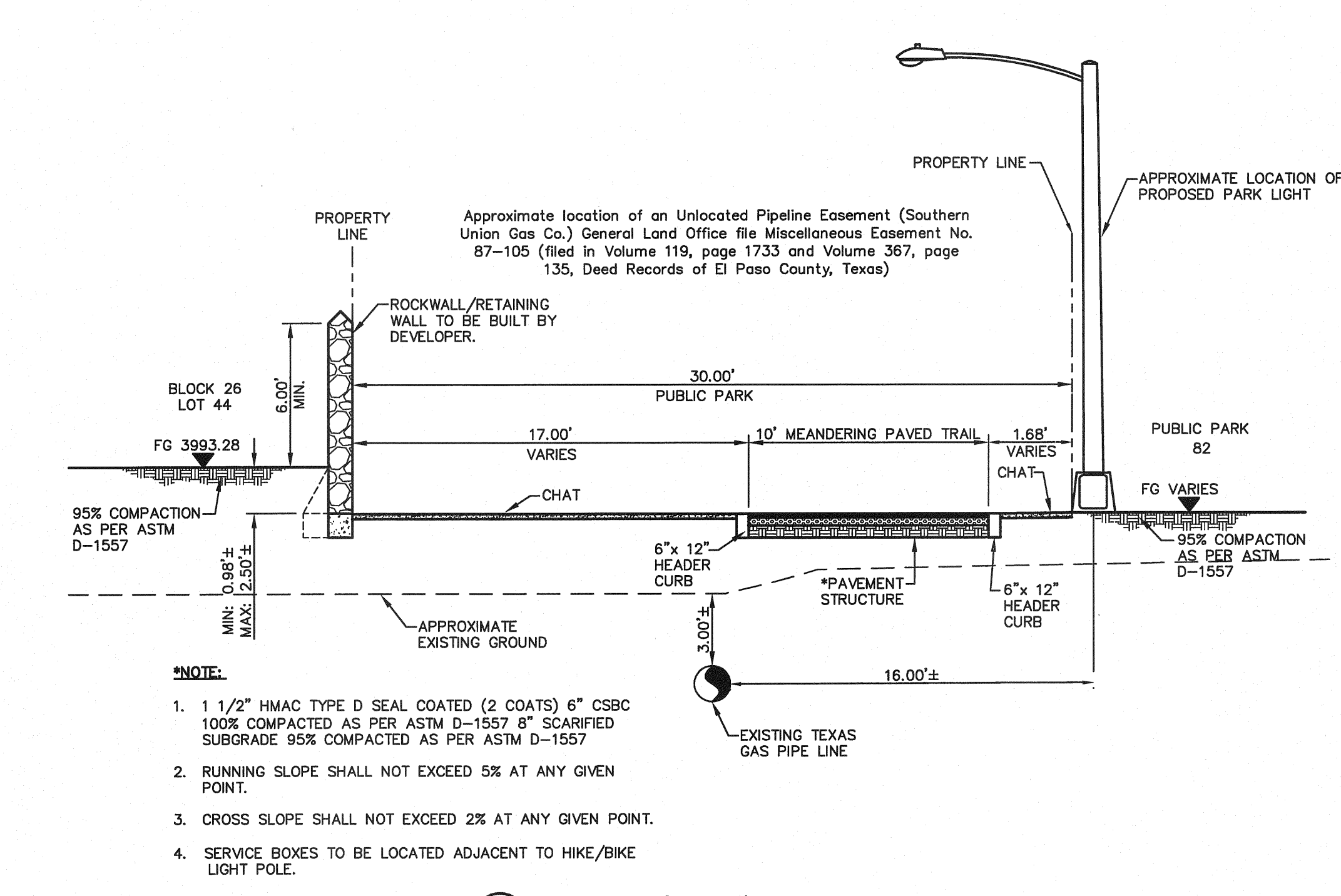
CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

REVISIONS	DATE	BY



1 TYPICAL 30' HIKE/BIKE TRAIL SECTION DETAIL
SCALE: 1" = 5"



2 TYPICAL 30' HIKE/BIKE TRAIL SECTION DETAIL
SCALE: 1" = 5"

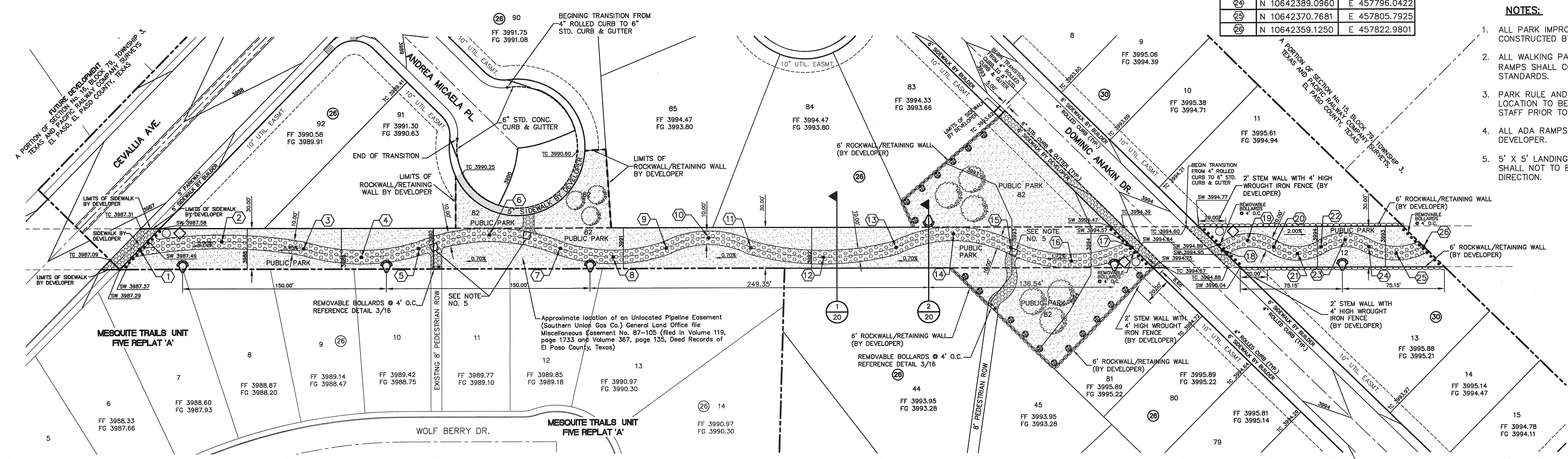
KEY #	NORTH	EAST
1	N 10643062.0156	E 457191.2229
2	N 10643020.6499	E 457235.3799
3	N 10642972.3462	E 457271.8176
4	N 10642936.6441	E 457295.5019
5	N 10642909.2991	E 457328.4842
6	N 10642877.3237	E 457370.7423
7	N 10642831.9063	E 457398.0448
8	N 10642798.4999	E 457419.3908
9	N 10642773.7241	E 457450.3390
10	N 10642755.5252	E 457476.7459
11	N 10642727.3334	E 457492.0349
12	N 10642682.8951	E 457522.5113
13	N 10642647.8678	E 457563.4584
14	N 10642623.1882	E 457599.0860
15	N 10642585.1392	E 457619.8388
16	N 10642545.1902	E 457642.0949
17	N 10642518.8138	E 457679.4520
18	N 10642467.9933	E 457722.3900
19	N 10642458.8055	E 457740.0460
20	N 10642441.1577	E 457749.2493
21	N 10642424.7999	E 457752.2288
22	N 10642415.1268	E 457772.6457
23	N 10642405.4538	E 457788.0627
24	N 10642389.0960	E 457796.0422
25	N 10642370.7681	E 457805.7925
26	N 10642359.1250	E 457822.9801

LEGEND:

- 1 1/2" HMA TYPE D SEAL COATED (2 COATS)
- 6" CSBC 100% COMPACTED AS PER ASTM D-1557
- 8" SCARIFIED SUBGRADE 95% COMPACTED AS PER ASTM D-1557
- 4" SCREENING OVER NON WOVEN POLYPROPYLENE WEED BARRIER TO BE PINNED AT 3" ON CENTER EACH WAY AND AT ONE FOOT ON CENTER ALONG PERIMETER AND SEAMS; SEAMS TO BE OVERLAPPED A MINIMUM ONE FOOT.
- STAMPED CONCRETE BY DEVELOPER (COORDINATE WITH PARKS DEPARTMENT FOR STAMP CONFIGURATION).
- PROPOSED PARK LIGHTS. SEE PAGE 21 FOR DETAILS.
- PARK RULES SIGN
- SAFETY CROSSING SIGN

NOTES:

- ALL PARK IMPROVEMENTS TO BE CONSTRUCTED BY DEVELOPER.
- ALL WALKING PATHS, SIDEWALKS, AND RAMPS SHALL COMPLY WITH ADA/TAS STANDARDS.
- PARK RULE AND SAFETY CROSSING SIGNS LOCATION TO BE COORDINATED WITH PARK STAFF PRIOR TO INSTALLATION.
- ALL ADA RAMPS TO BE CONSTRUCTED BY DEVELOPER.
- 5' X 5' LANDING AREA. CROSS-SLOPE SHALL NOT EXCEED 2% IN ANY DIRECTION.



HIKE / BIKE TRAIL PLAN
SCALE: 1" = 40'

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASCO, ALEGRE CIRCLE AND PASCO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

CSA
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM #4684
4712 Woodrow Wilson, Suite 101, El Paso, TX 79924
Office: 915.834.8822 Fax: 915.834.8824 www.csa-engineers.com

ENGINEER'S SEAL

SCALE: 1" = 40'
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPROV. BY: J.L.A.
JOB No. 2000-117-LD

PROJECT NAME

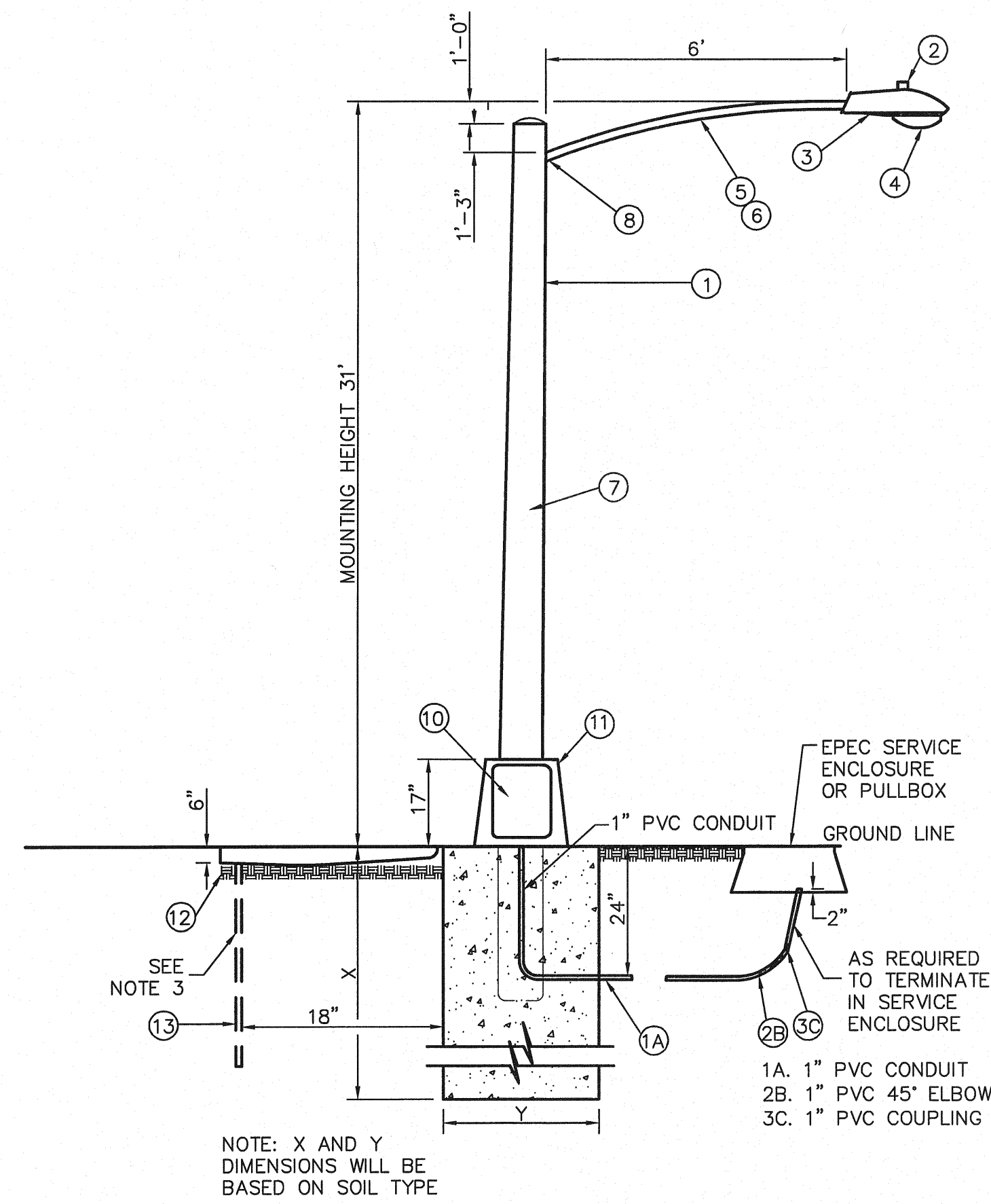
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

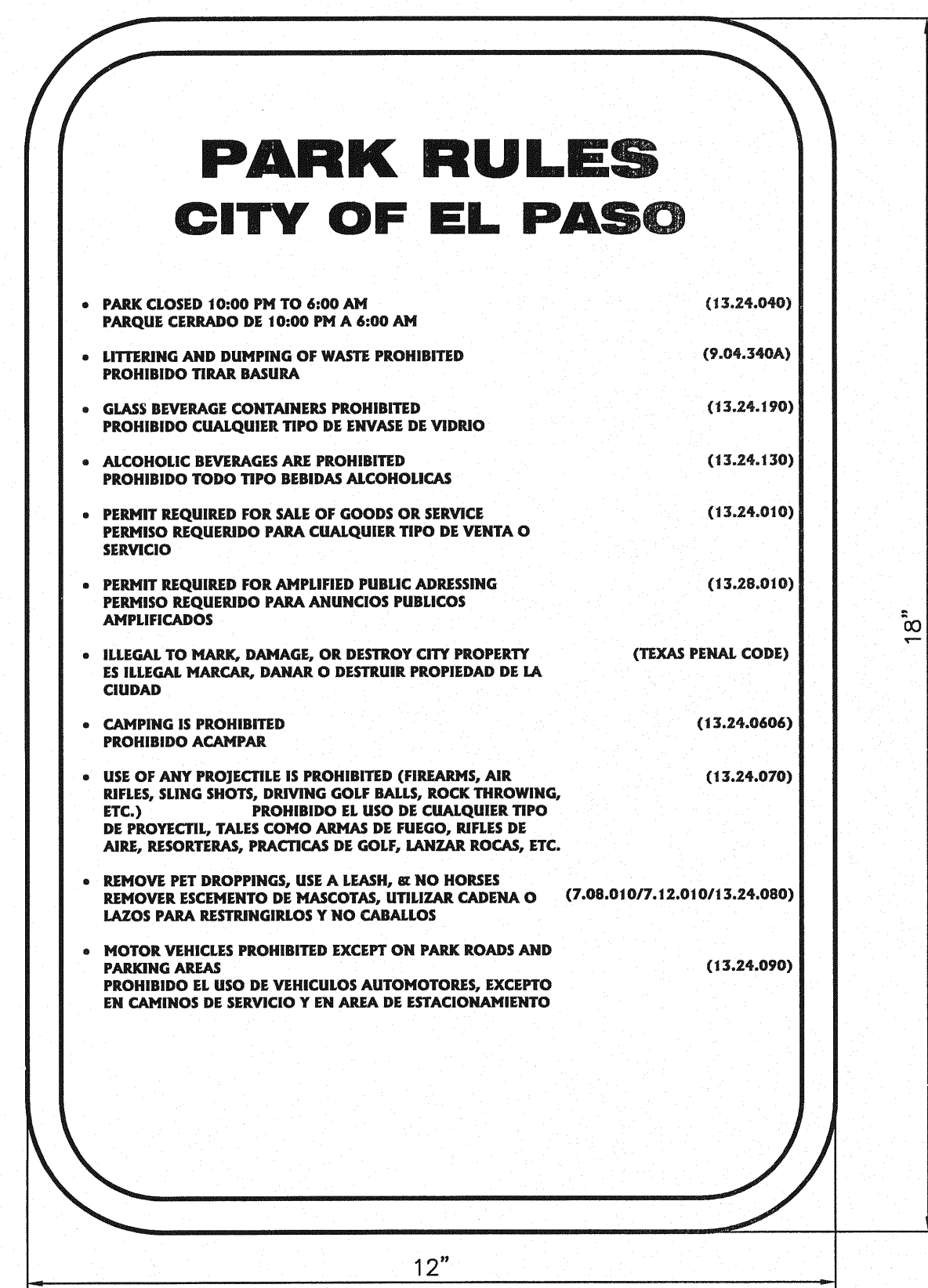
HIKE & BIKE TRAIL PLAN

SHEET NO.

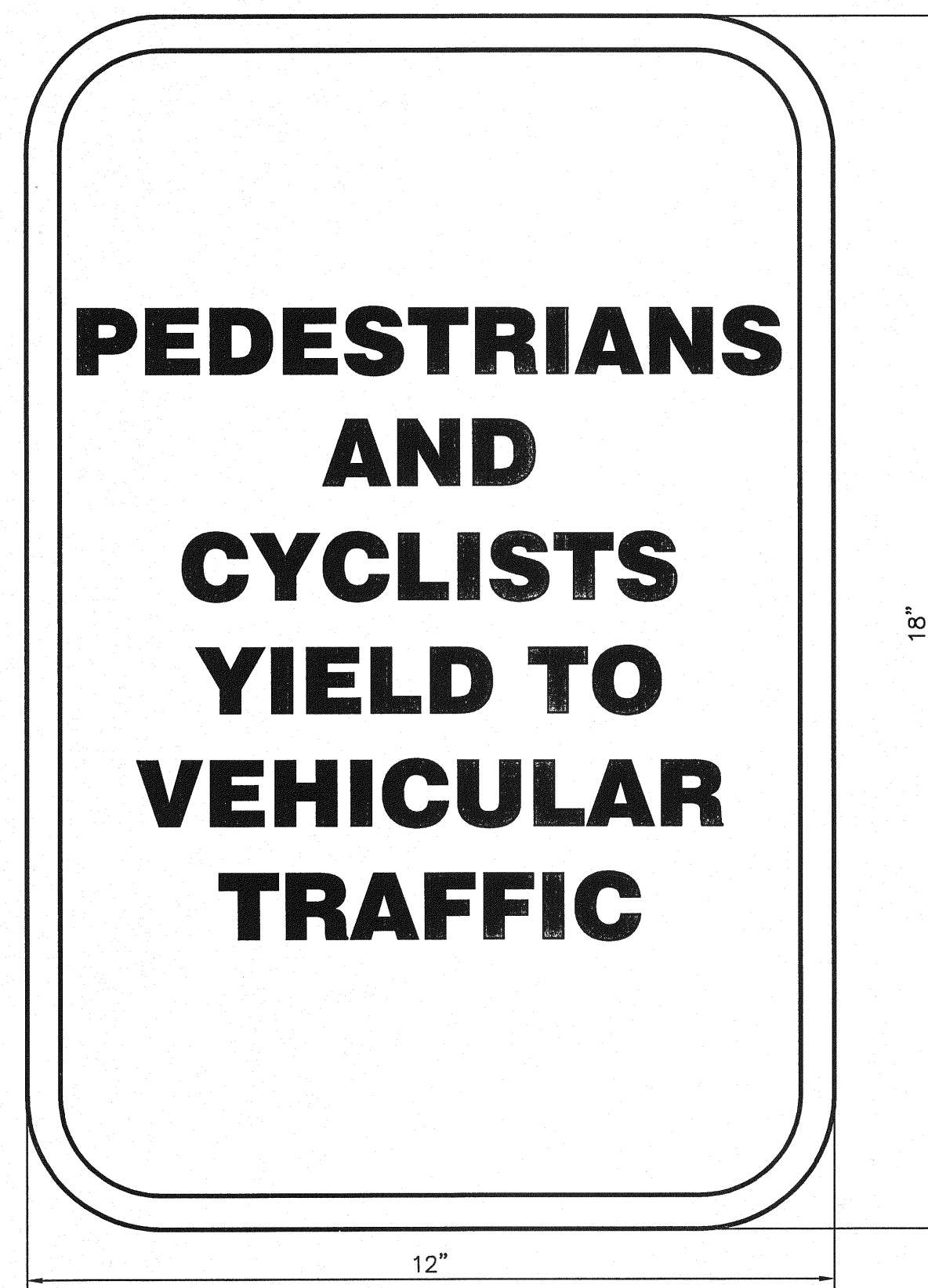
20



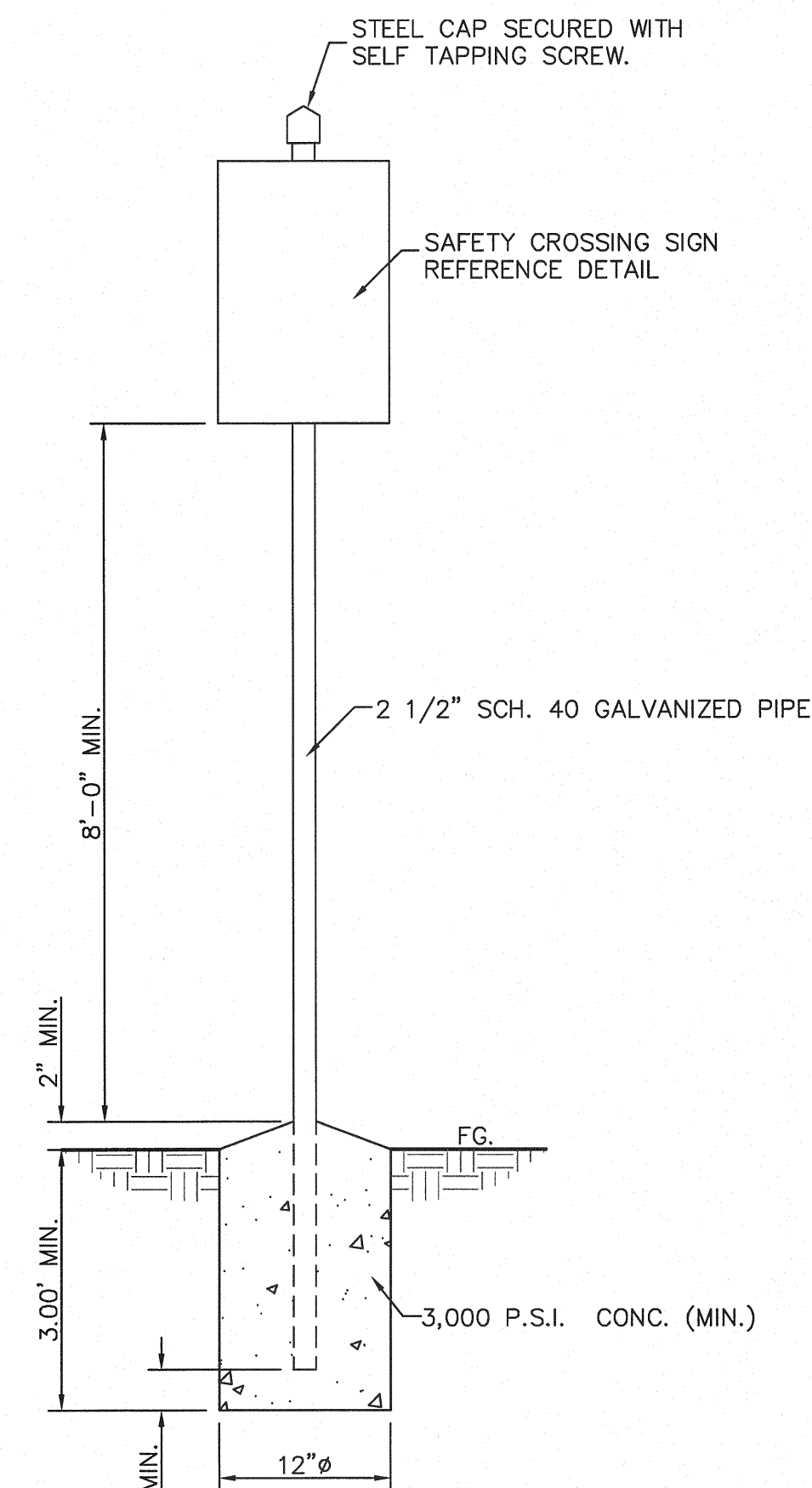
RESIDENTIAL STREET LIGHT STEEL POLE
SCALE: N.T.S.



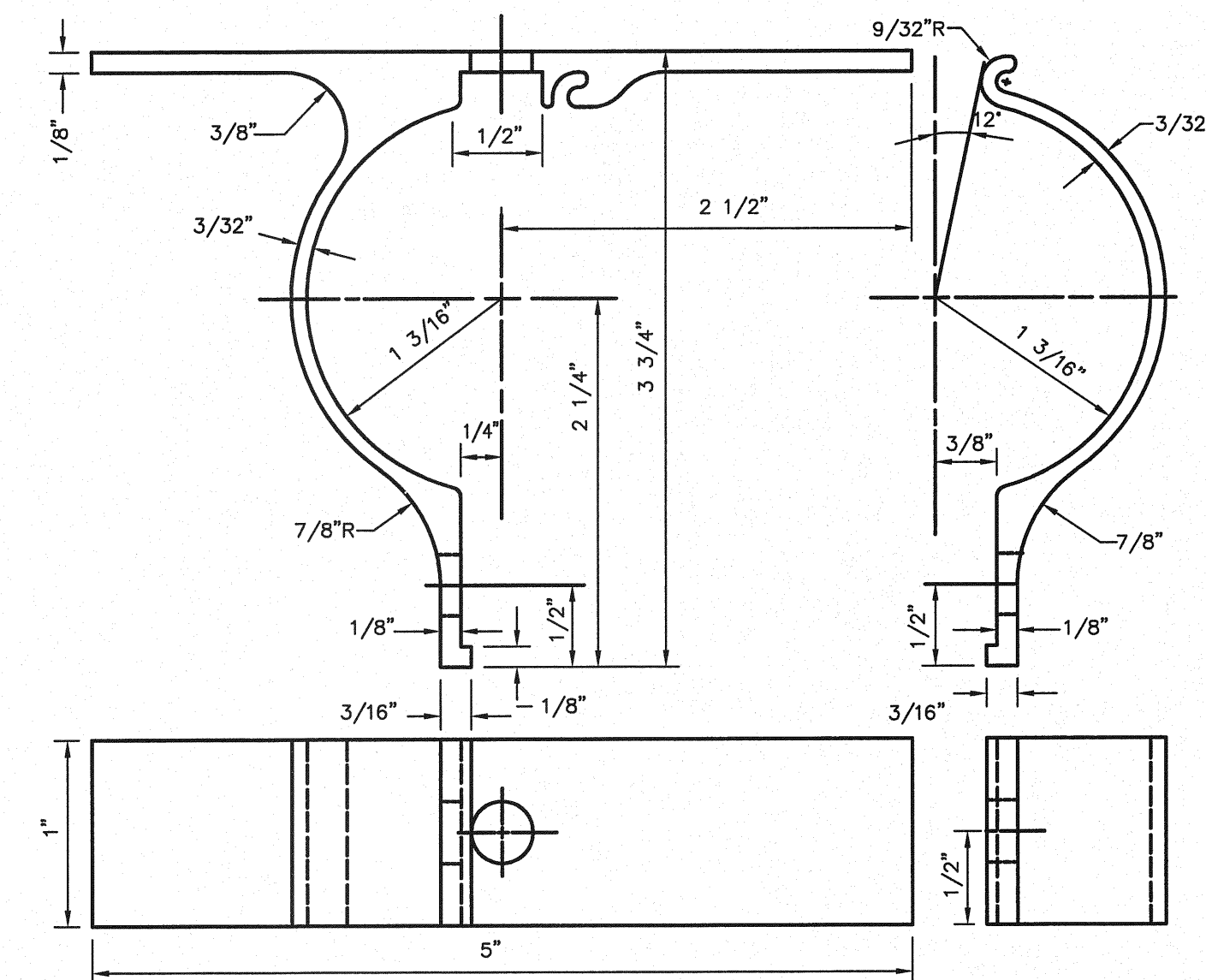
PARK RULES SIGN DETAIL
SCALE: N.T.S.



SAFETY CROSSING SIGN DETAIL
SCALE: N.T.S.



MOUNTING DETAIL
SCALE: N.T.S.



- NOTES:
1. ALL HOLES 3/8" PUNCH
 2. FILLETS & ROUNDS 1/16"=R
 3. FURNISH THE FOLLOWING HARDWARE FOR EACH BRACKET:
 - 1 - 5/16"x 3/4" BOLTS
 - 1 - 5/16"x 1 1/4" BOLT
 - 2 - 5/16"x NUTS & LOCK WASHERS
 - 2 - FLAT WASHERS
 4. THE BRACKET IS TO BE MADE FROM HIGH STRENGTH ALUMINUM ALLOY. THE BRACKET IS TO EMPLOY AN EXTRUDED INTERLOCKING FEATURE OFFERING A RIGID MEANS OF ATTACHING A FLAT SIGN TO A STANDARD 2" (2/8" O.D.) TUBULAR POST.

ALUMINUM SIGN CLAMP BRACKET
FOR TRAFFIC CONTROL SIGNS
SCALE: N.T.S.

ITEM NO.	DESCRIPTION	STOCK/DSO NO.	QTY.
1	POLE, 35 FT.-CLASS IV		1
2	PHOTOCELL, 240V-SEE NOTE 1	021-225	1
3	LUMINAIRE, 100W H. P. S.	021-335	1
4	HPS LAMP, 100W	021-085	1
5	MAST ARM, 6' X 1-1/4"	21-200	1
6	#10 SOLID CABLE 600 V	013-600	AS REQ
7	CABLE, #10, 3 CONDUCTOR, 600 V, UF	013-600	40' PLUS
8	SLEEVES, #12	05-145	AS REQ
9	ROADWAY LUMINAIRE HPS 150 WATTS	21-340	1
10	BREAK-A-WAY FUSES 30 AMP.	21-250	2
11	ALUMINUM TRANSFORMER BASE	21-608	1
12	5/8" GROUND ROD CLAMP	07-561	1
13	5/8" X 10' CU BONDED GROUND ROD	08-626	1

KEY NOTES

1. MOUNT SO THAT CONTROL FACES NORTH.
2. ITEM 7 SHALL NOT BE SPLICED INSIDE ITEM 5.

DESIGN NOTES

1. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
2. FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION, CALL EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT.
3. A GROUND ROD MUST BE USED.

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

**WARNING!
BEFORE YOU DIG**

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALLEGRE CIRCLE AND PASEO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

CSA

engineers • architects • planners

TEXAS REGISTERED ENGINEERING FIRM #464

4712 Woodrow Wilson, Ste. F El Paso, TX 79924

Office: 915-544-4222 Fax: 915-544-4225 www.csa-engineers.com



SCALE: 1"=1'

Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPD. BY: J.L.A.

JOB No. 2000-117-LD

PROJECT NAME

MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS

SHEET TITLE

HIKE & BIKE
TRAIL DETAILS

SHEET NO.

21

OF 24

SITE DESCRIPTION

PROJECT NAME AND LIMITS: MESQUITE TRAILS UNIT SIX
THE PROJECT IS BORDERED BY MESQUITE TRAILS UNIT FIVE REPLAT A TO THE WEST,
AND PORTION OF SECTION 16, BLOCK 79, TOWNSHIP 3, T&P R.R. Co. SURVEYS TO
THE NORTH, AND SOUTH, AND TO THE EAST A PORTION OF SECTION 15, BLOCK 79,
TOWNSHIP 3, T&P R.R. Co. SURVEYS, EL PASO COUNTY, TEXAS.

PROJECT DESCRIPTION: THE SITE FOR THE NEW SUBDIVISION WILL ENCOMPASS APPROXIMATELY
26.828± ACRES, AND WILL CONTAIN 169 RESIDENTIAL LOTS, PROJECT IMPROVEMENTS
SHALL CONSIST OF GRADING AND PAVING.

EXISTING CONDITIONS: THE SITE IS CLEAR OF SITE IMPROVEMENTS AND IS COVERED WITH ITS
NATURAL SURROUNDINGS.

MAJOR SOIL DISTURBING ACTIVITIES: MAJOR SOIL DISTURBING ACTIVITIES WILL CONSIST OF CLEARING
AND GRUBBING, GRADING FOR BUILDING PAD ELEVATIONS, CONSTRUCTION OF STREETS AND
EXCAVATION FOR UTILITIES.

TOTAL PROJECT AREA: 26.828± ac.

TOTAL AREA TO BE DISTURBED: 26.828± ac.

WEIGHTED RUNOFF COEFFICIENT
(AFTER CONSTRUCTION): 0.670

EXISTING CONDITION OF SOIL AND VEGETATIVE
COVER AND % OF EXISTING VEGETATIVE COVER: THE PROJECT SITE IS LOCATED IN THE VICINITY OF THE
HUECO-WINK ASSOCIATION. THE SOILS IN THESE AREA ARE GENERALLY DESCRIBED AS
NEARLY LEVEL AND GENTLY SLOPING SOILS THAT HAVE A FINE SANDY LOAM SUBSOIL
AND ARE MODERATELY DEEP OVER CALICHE; IN THE HUECO BOLSON.

NAME OF RECEIVING WATERS: STORM RUNOFF FROM THE NEW SUBDIVISION WILL BE DISCHARGED INTO
EXISTING RETENTION BASINS.

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER: _____

STRUCTURAL PRACTICES:

- SILT FENCES OR EARTHEN BERMS
- HAY BALES
- ROCK BERMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- DIVERSION DIKE AND SWALE COMBINATION
- PIPE SLOPE DRAINS
- CONCRETE FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM DRAINS
- VELOCITY CONTROL DEVICES
- VEGETATED SWALES & NATURAL DEPRESSIONS

OTHER: _____

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS (e.g. SILT FENCE AND/OR EARTHEN BERM, AND STABILIZED CONSTRUCTION ENTRANCE);
2. PERFORM CLEARING AND GRUBBING;
3. EXCAVATION FOR UTILITIES;
4. COMPLETE STREET AND LOT GRADING;
5. CONSTRUCTION OF SUBDIVISION IMPROVEMENTS; AND,
6. WHEN ALL CONSTRUCTION ACTIVITY RELATED IN DEVELOPMENT OF THE SITE IS COMPLETE, REMOVE TEMPORARY CONTROLS IN 1. ABOVE.

SWPPP GENERAL NOTES:

1. PLACEMENT OF SILT FENCE SHALL BE ADJUSTED AS NECESSARY TO PREVENT THE BLOCKING OF DRIVEWAYS OR DRIVING LANES.
2. THE SWPPP MANUAL IDENTIFIES THE DUTIES AND RESPONSIBILITIES OF THE GENERAL CONTRACTOR IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. THIS ITEM SHALL BE SUBSIDIARY TO THE SWPPP BEST MANAGEMENT PRACTICES (COMPLETE IN PLACE) ITEMS. THE SWPPP PROJECT MANUAL IS AVAILABLE FOR REVIEWING AT THE CITY OF EL PASO - ENGINEERING DEPARTMENT. UPON SELECTION, THE CONTRACTOR WILL BE PROVIDED AN SWPPP MANUAL. THE CONTRACTOR SHALL MAINTAIN THIS MANUAL AT THE CONSTRUCTION SITE AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL COMPLETE AND SUBMIT ALL REGULATORY FORMS AND APPLICATIONS, AS PROVIDED IN THE SWPPP MANUAL, INCLUDING, BUT NOT LIMITED TO; NOI, NOT, SDPCP, AND ANY OTHER FORM REQUIRED BY THE CITY OF EL PASO AND TCEQ.
4. ALLOWABLE STORM WATER AND NON-STORMWATER DISCHARGE SHALL COMPLY WITH 15.20.080 (GENERAL PROHIBITION) AND 15.20.090 (SPECIFIC PROHIBITIONS AND REQUIREMENTS) OF THE CITY OF EL PASO STORM DRAIN POLLUTION CONTROL PLAN ORDINANCE. NON-STORMWATER DISCHARGES MAY CONSIST OF, BUT ARE NOT LIMITED TO, THE DISCHARGE RESULTING FROM FIREFIGHTING, LAWN WATERING, LANDSCAPE IRRIGATION, NATURAL SPRING, AND/OR AGRICULTURAL STORM WATER RUNOFF.
5. REFER TO DRAINAGE PLAN SHEET 4, FOR ADDITIONAL INFORMATION ON WATERSHED AREAS AND RUNOFF QUANTITIES (Q).
6. THE FOLLOWING HAVE BEEN IDENTIFIED AS POTENTIAL CONTAMINATION SOURCES: CLEARED AND GRADED AREAS; CONSTRUCTION SITE ENTRANCE AND ASPHALT PARKING AREA CONSTRUCTION; ASPHALT LOADING/UNLOADING AREAS; CONCRETE LOADING/UNLOADING AREAS; AND, ALL UNDISTURBED AREAS.
7. THE FOLLOWING IS A LIST OF POTENTIAL CONSTRUCTION SITE STORM WATER POLLUTANTS: ASPHALT; CONCRETE; GLUE/ADHESIVE; PAINTS; CURING COMPOUNDS; WASTEWATER FROM CONSTRUCTION EQUIPMENT WASHING; HYDRAULIC OIL/FLUIDS; GASOLINE; DIESEL FUEL; KEROSENE; ANTIFREEZE/COOLANT; AND EROSION.

BEST MANAGEMENT PRACTICES CONTROLS

I. WASTE MATERIALS:

ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE AND REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

II. HAZARDOUS WASTE:

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TCEQ.

III. SANITARY WASTE:

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.08 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV. SPILL PREVENTION:

THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

V. GOOD HOUSEKEEPING:

- A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB
- B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER
- C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
- D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
- E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER
- F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL

VI. HAZARDOUS PRODUCTS:

PRACTICES USED TO REDUCE RISKS:

- A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
- B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS)
- C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL & STATE RECOMMENDED METHODS

VII. PETROLEUM PRODUCTS:

ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

VIII. SPILL CONTROL PRACTICES:

- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES:
- B. MATERIALS AND EQUIPMENT NECESSARY FOR CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE:
- C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
- D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN:
- E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY
- F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING

IX. MAINTENANCE AND INSPECTION PROCEDURES:

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH OR WITHIN 24-HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED MONTHLY. BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY.

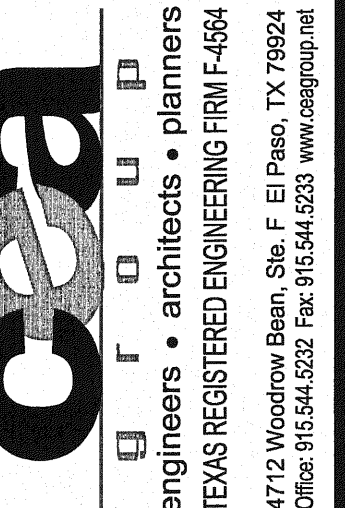
X. REMARKS:

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

XI. OFFSITE VEHICLE TRACKING:

IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:
- HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD SHALL BE REMOVED IMMEDIATELY
- STABILIZED CONSTRUCTION ENTRANCE
- OTHER: _____

REFERENCES - BENCHMARKS	BY
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE	REVISIONS
ELEVATION = 4003.10 (CITY DATUM).	DATE



SCALE	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2010
DESIGN BY:	F.Z.
DRAWN BY:	J.M.
CHKD. BY:	J.L.A.
APPRD. BY:	J.L.A.
JOB No.	2000-117-LD

**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**STORM WATER
POLLUTION
PREVENTION PLAN:
NOTES**

SHEET NO.

22

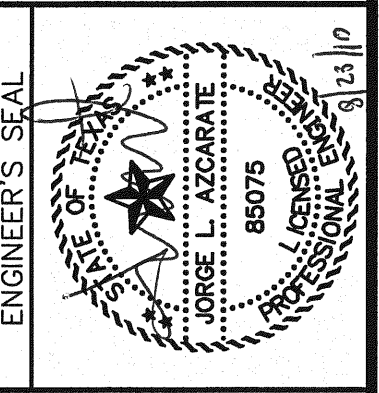
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
 BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM).

CSA
 ENGINEERS • ARCHITECTS • PLANNERS
 TEXAS REGISTERED ENGINEERING FIRM F-4884
 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Other: 915-543-5282 Fax: 915-543-5233 www.csaengineers.com



SCALE: 1" = 100'
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2010
 DESIGN BY: F.Z.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

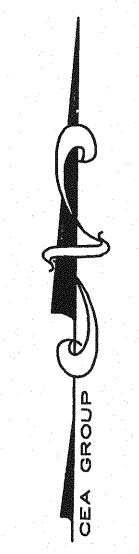
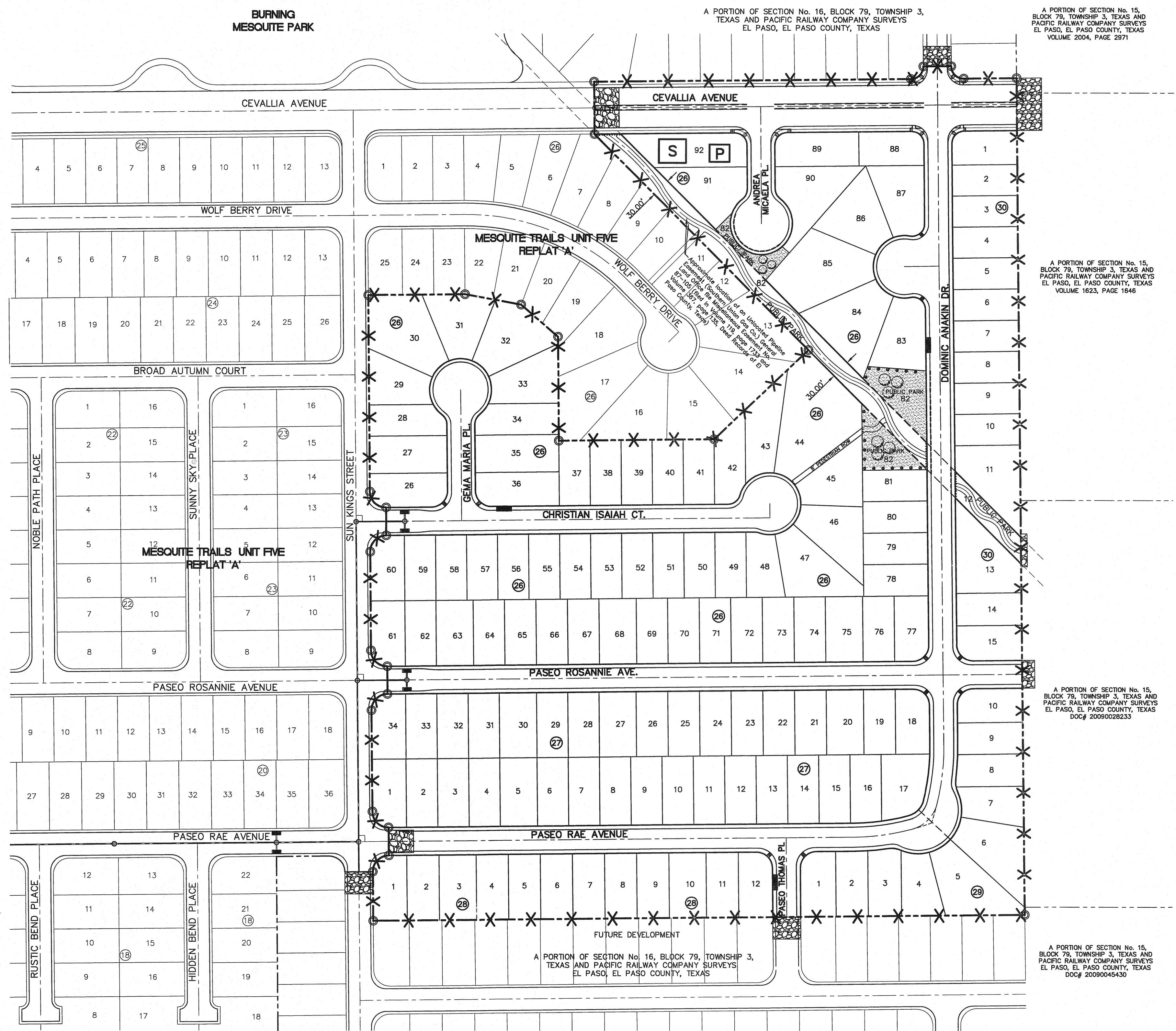
SHEET TITLE
**STORM WATER
 POLLUTION
 PREVENTION PLAN:
 SITE PLAN**

SHEET NO.
23

OF 24

LEGEND

- SILT FENCE OR EARTHEN BERM
- STABILIZED CONSTRUCTION ENTRANCE
- STAGING AREA
- PORTABLE TOILETS



SITE PLAN
 SCALE: 1" = 100'

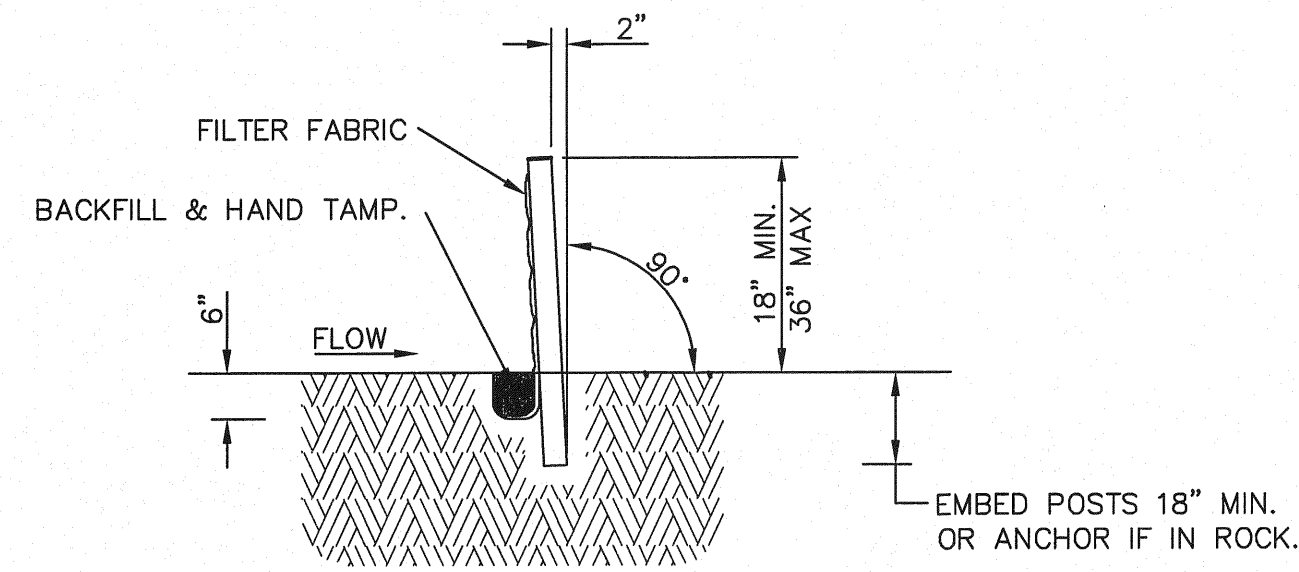
4" MIN. STEEL OR WOOD POSTS SPACED AT 6' TO 8' O.C.
 SOFTWOOD POSTS SHALL BE 3" MIN. DIA. OR NOMINAL 2"x4".
 HARDWOOD POSTS SHALL HAVE A MIN. CROSS SECTION OF 1.5" X 1.5".

CONNECT THE ENDS OF
 SUCCESSIVE REINFORCEMENT
 SHEETS OR ROLLS A MIN. OF
 6 TIMES WITH HOG RINGS.

GALV. W.W.M. (12.5 GA. MIN.)
 MAX. OPENING SIZE SHALL BE
 2" X 4".

ATTACH THE W.W.M. & FABRIC ON END POSTS
 USING 4 EVENLY SPACED STAPLES FOR
 WOODEN POSTS (OR 4 T-CLIPS OR SEWN
 VERTICAL POCKETS FOR STEEL POSTS).

TEMPORARY SEDIMENT CONTROL FENCE

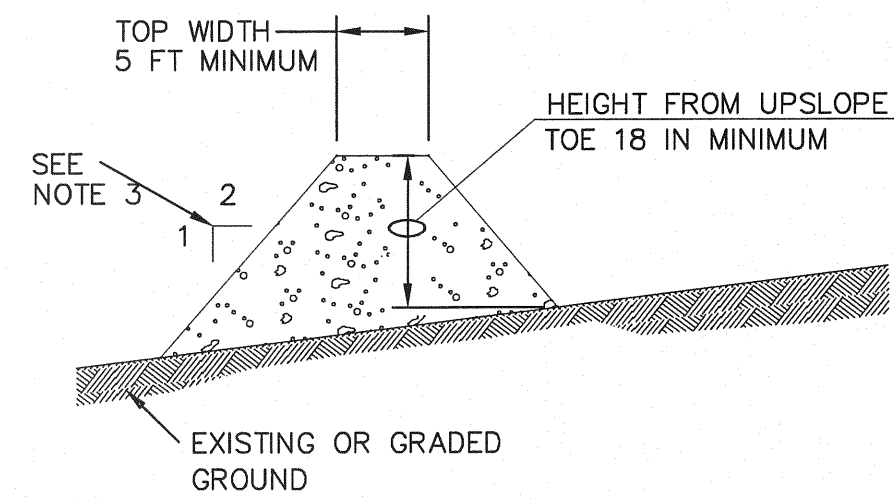


SECTION A-A

FASTEN FABRIC TO TOP STRAND OF WELDED WIRE MESH (W.W.M.)
 BY HOG RINGS OR CORD AT A MAX. SPACING OF 15".

WOVEN FILTER
 FABRIC

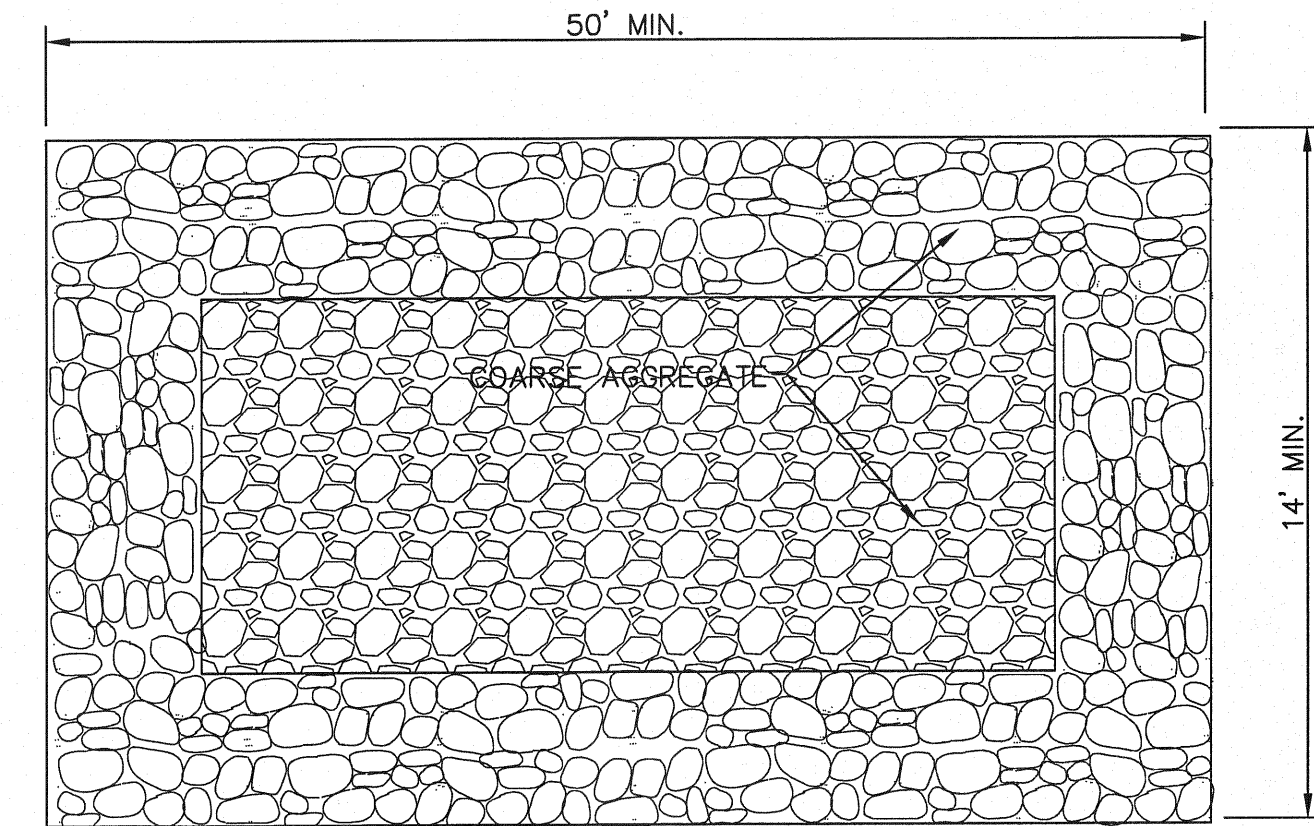
PLACE 4" TO 6" OF FABRIC AGAINST THE TRENCH
 SIDE AND APPROX. 4" ACROSS TRENCH BOTTOM IN
 UPSTREAM DIRECTION. MINIMUM TRENCH SIZE
 SHALL BE 6" SQUARE. BACKFILL AND HAND TAMP.



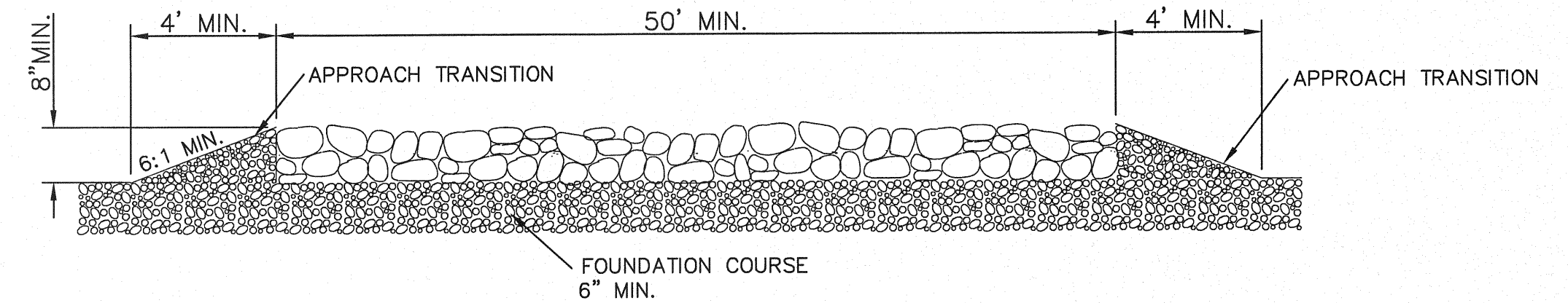
GENERAL NOTES:

1. SOIL USED IN BERM CONSTRUCTION SHALL BE MACHINE COMPACTED.
2. TOP WIDTH AND HEIGHT OF BERM MAY BE MODIFIED WITH PRIOR APPROVAL OF THE ENGINEER.
3. SIDE SLOPES WITHIN THE SAFETY CLEAR ZONE OF A ROADWAY SHALL BE 6:1 OR FLATTER.
4. GRADING SHALL BE SHOWN ELSEWHERE IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE DIMENSIONS SHOWN FOR THE BERM DEPENDENT ON RUNOFF VOLUME CHARACTERISTICS.
6. BERM THAT ARE IN PLACE FOR MORE THAN 14 CALENDAR DAYS SHOULD BE STABILIZED TO PREVENT SEDIMENT RUNOFF.
7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

TYPICAL BERM CONFIGURATION



PLAN

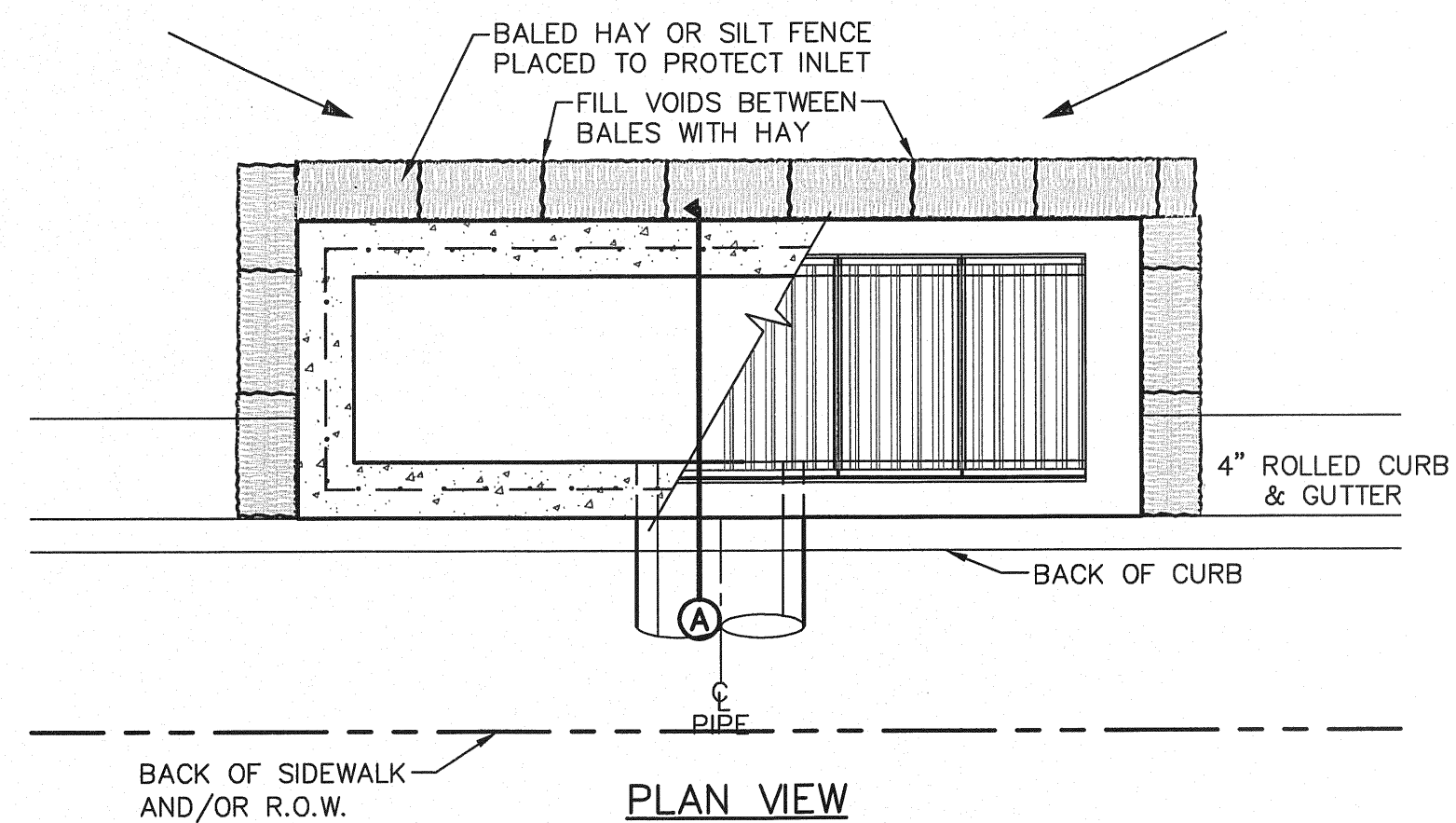


PROFILE

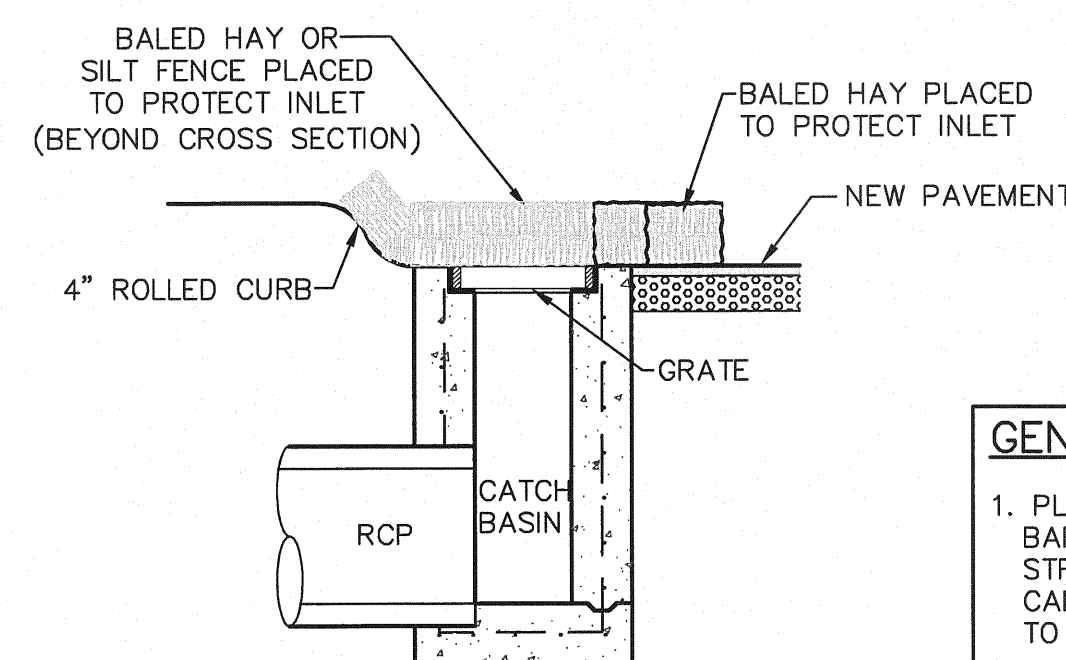
GENERAL NOTES:

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT (TYPE 1)



PLAN VIEW



SECTION

GENERAL NOTES:

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

TEMPORARY INLET PROTECTION

REFERENCES - BENCHMARKS	BY
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALLEGRE CIRCLE AND PASEO LINDO DRIVE	DATE
ELEVATION = 4003.10 (CITY DATUM).	REVISIONS

COA
 engineers • architects • planners
 TEXAS REGISTERED ENGINEERING FIRM F-454
 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915.544.5232 Fax: 915.544.5233 www.coagroup.net

ENGINEER'S SEAL

 JORGE L. AZARATE
 88075
 STATE OF TEXAS

SCALE	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2010
DESIGN BY:	F.Z.
DRAWN BY:	J.M.
CHKD. BY:	J.L.A.
APPVD. BY:	J.L.A.
JOB NO.	2000-117-LD

**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

**STORM WATER
 POLLUTION
 PREVENTION PLAN:
 DETAILS**

WARNING!!! BEFORE YOU DIG

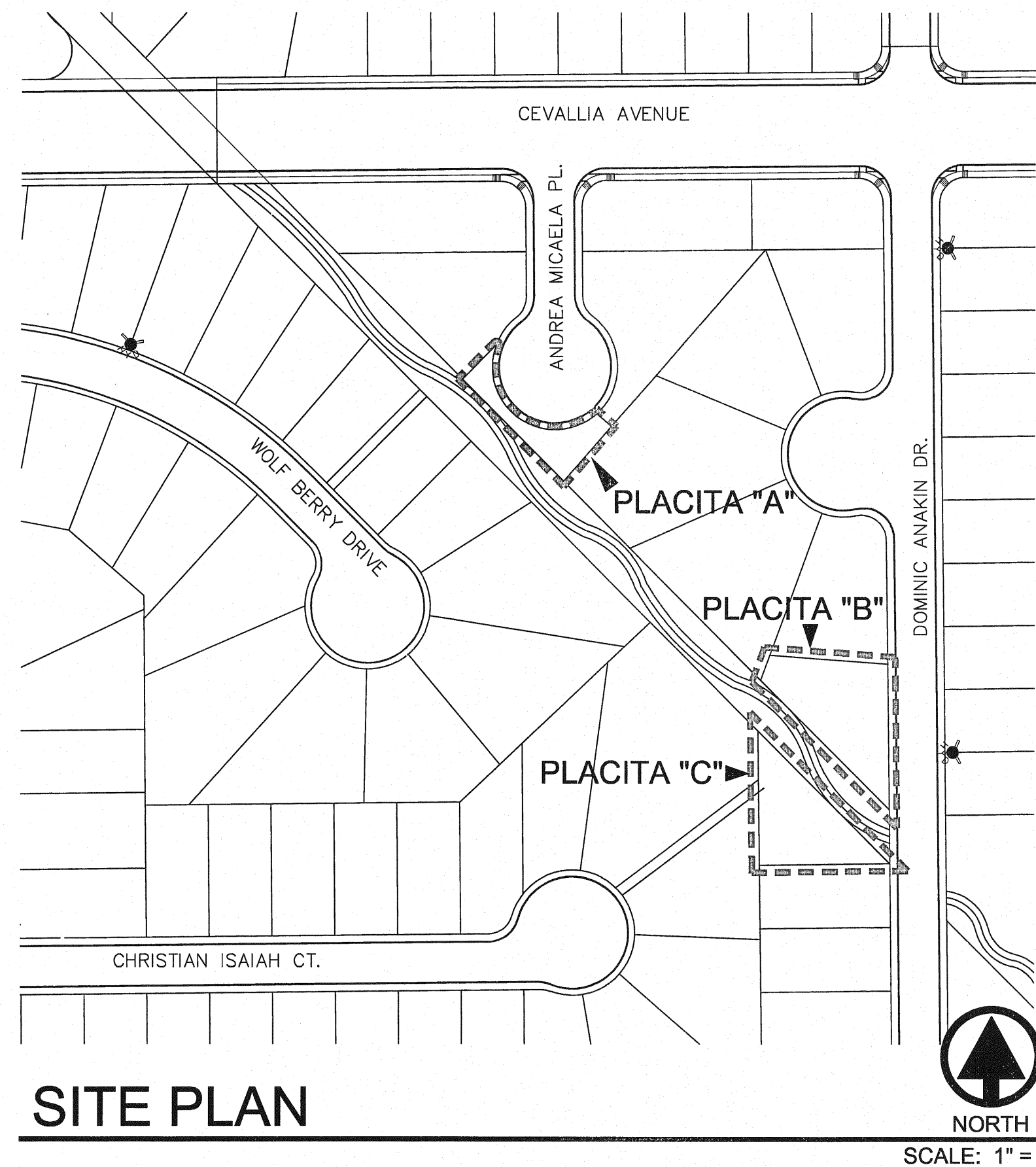
COORDINATION WITH UTILITIES:
 CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.

TEXAS GAS SERVICE 4700 POLLARD ST. EL PASO, TEXAS 79930 ARMANDO REDA, 682-7243	EL PASO ELECTRIC CO. 501 WEST SAN ANTONIO ST. EL PASO, TEXAS 79901 MR. BILL ENGELS, (915) 543-4108 MOBILE, (915) 539-7184	EL PASO WATER UTILITIES 1154 HAWKINS DR. EL PASO, TEXAS 79927 (915) 394-5540
---	---	---

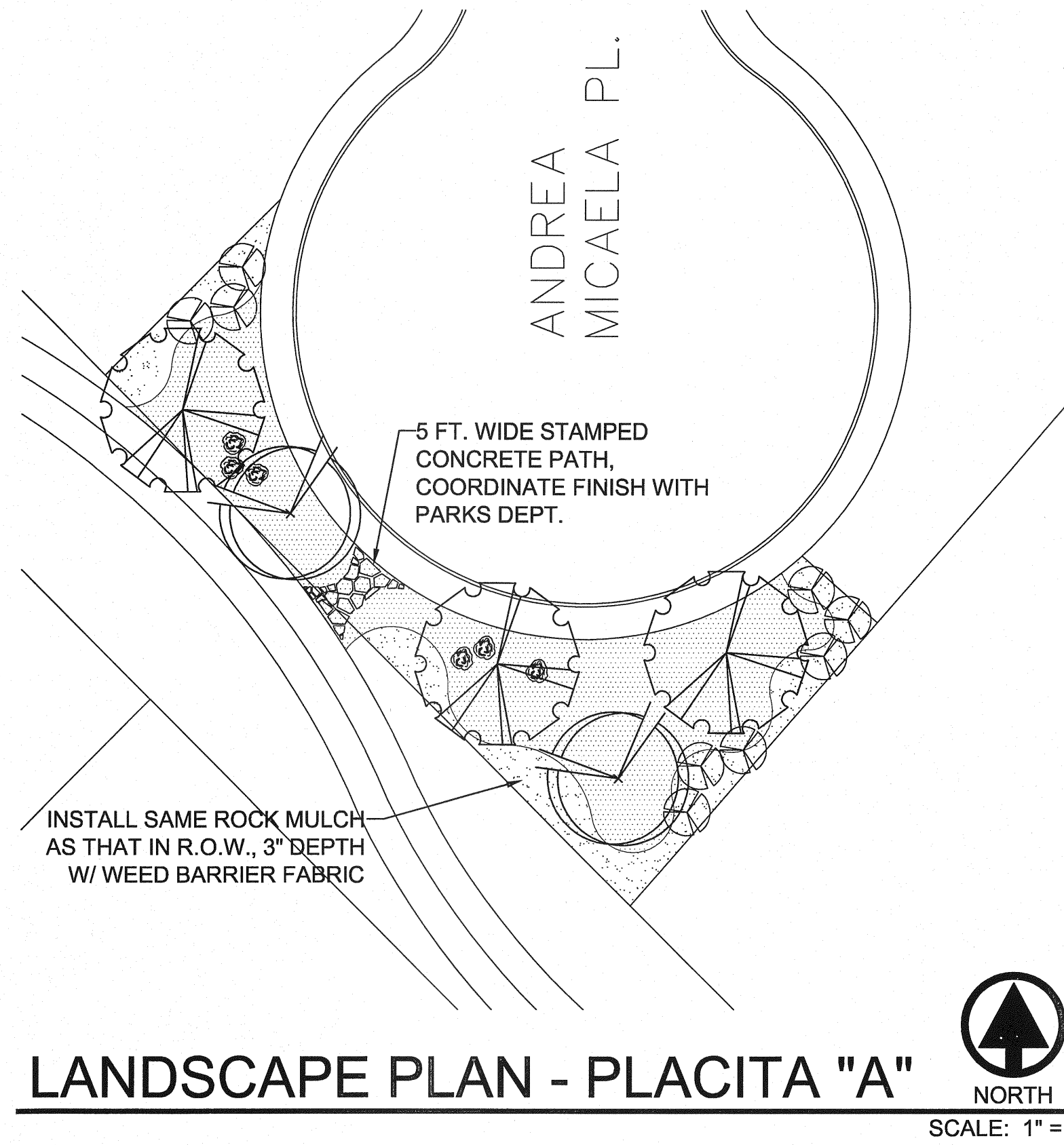
AT&T
11200 HELICIANO DR.
EL PASO, TEXAS 79935
MR. JOE GRANADOS
(915) 595-5140

TIME WARNER COMMUNICATIONS
#2 CONCORD ST.
EL PASO, TEXAS 79906
CONSTRUCTION, (915)
775-7414

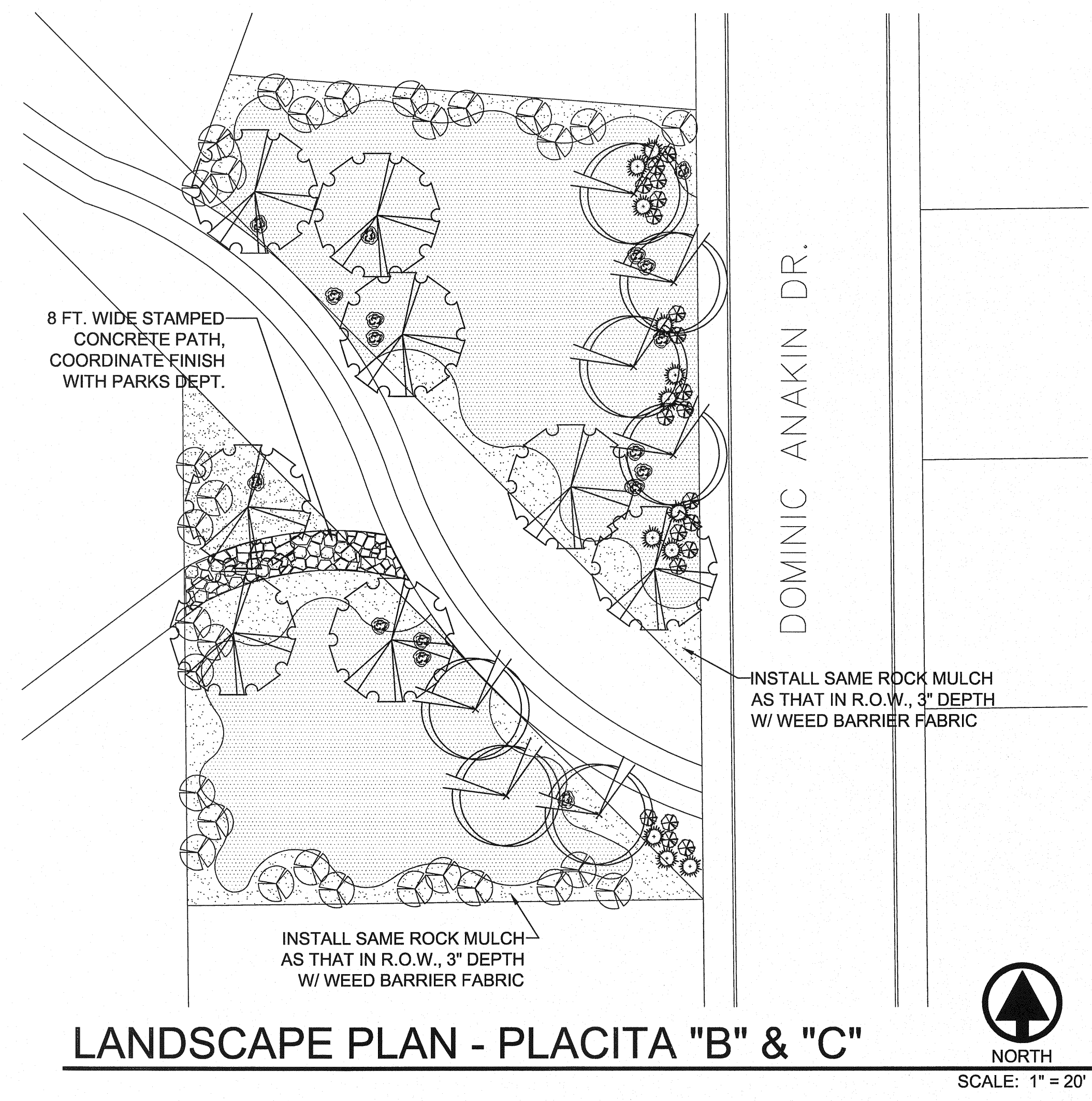
TEXAS EXCAVATION SAFETY SYSTEM
ANYWHERE IN TEXAS
1-800-344-6377



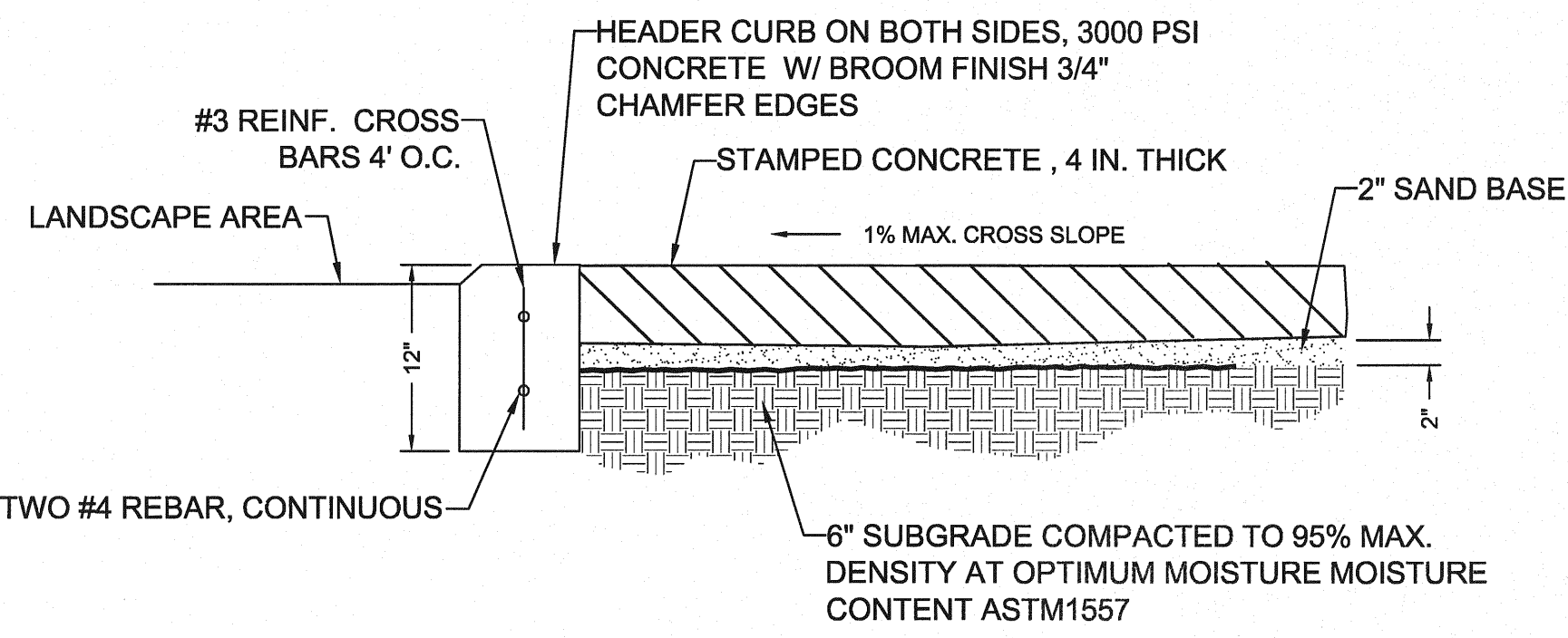
SITE PLAN
SCALE: 1" = 100'



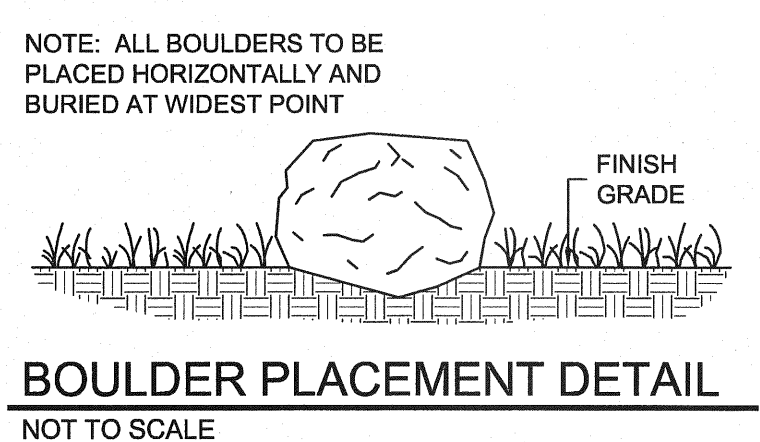
LANDSCAPE PLAN - PLACITA "A"
SCALE: 1" = 20'



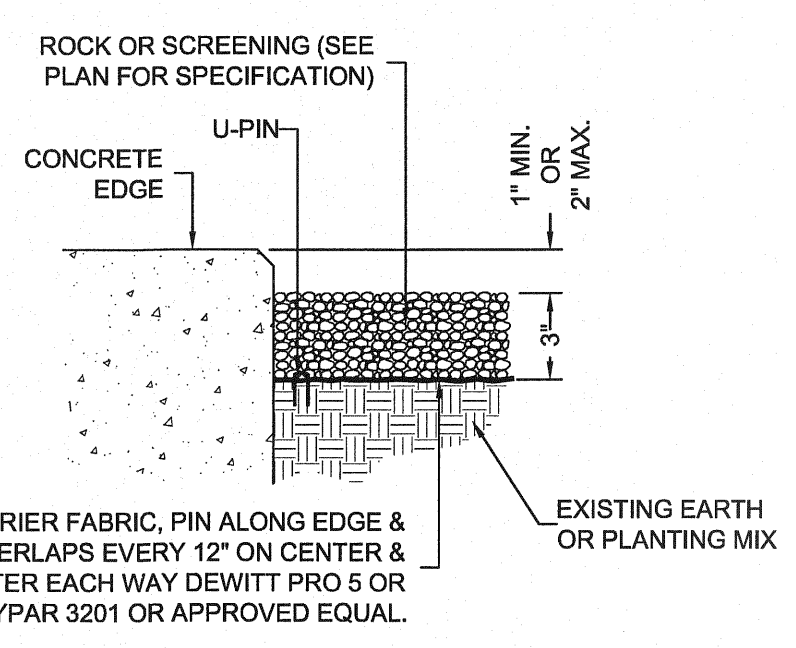
LANDSCAPE PLAN - PLACITA "B" & "C"
SCALE: 1" = 20'



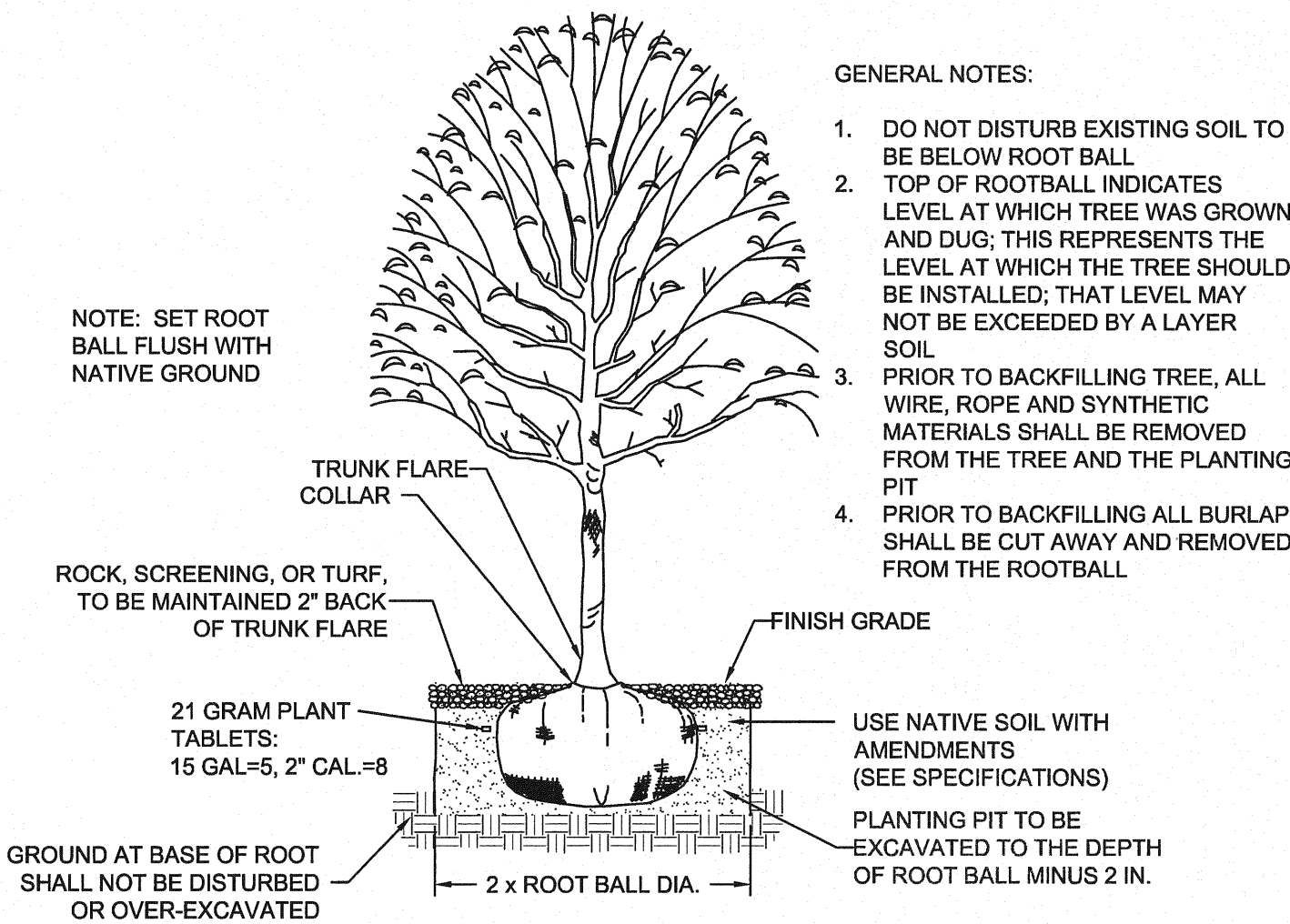
STAMPED CONCRETE INSTALLATION DETAIL
NOT TO SCALE



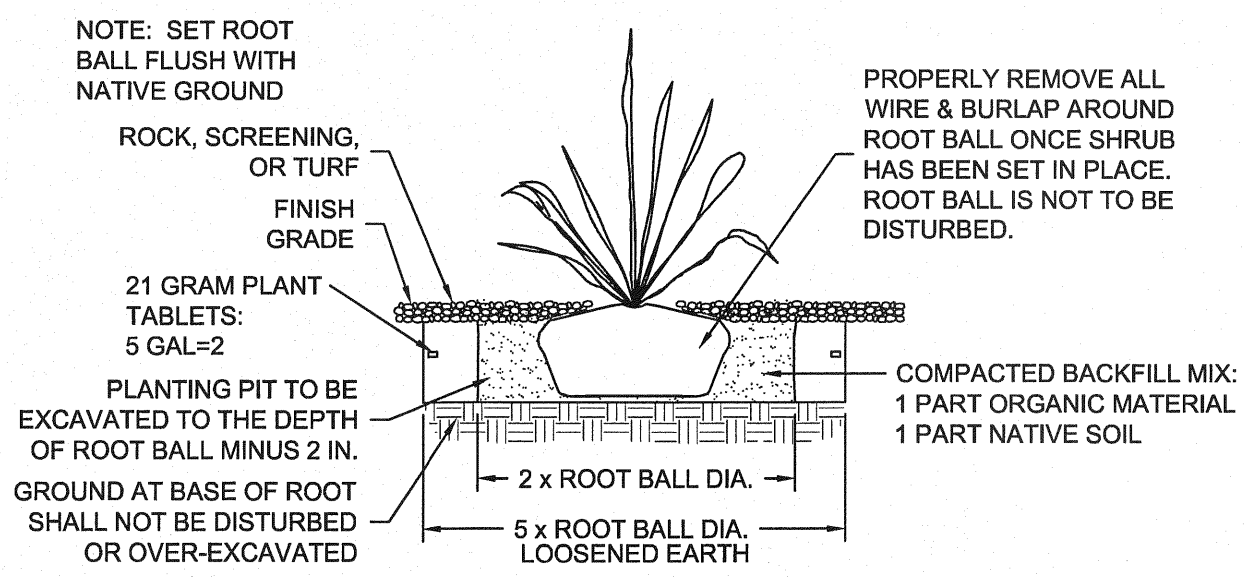
BOULDER PLACEMENT DETAIL
NOT TO SCALE



ROCK/SCREENING DETAIL
NOT TO SCALE



TREE PLANTING DETAIL
NOT TO SCALE



SHRUB PLANTING DETAIL
NOT TO SCALE

LANDSCAPE LEGEND

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY
2" CALIPER TREE - 10' HEIGHT MINIMUM			
	HONEY MESQUITE	PROSOPIS GLANDULOSA	11
	PALO VERDE "DESERT MUSEUM"	CERCIDIUM X PARKINSONIA	7
5 GALLON SHRUB - 18" HEIGHT MINIMUM UNLESS OTHERWISE INDICATED			
	CALIFORNIA ROSEWOOD	VAUQUELINIA CALIFORNICA	41
	VARIEGATED AGAVE	AGAVE MARGINATA	13
1 GALLON SHRUB - GROUND COVER			
	POWIS CASTLE	ARTEMISIA 'POWIS CASTLE'	21
DECORATIVE STONES & BOULDERS			
	BOULDER - FRANKLIN RED		
	STAMPED CONCRETE PATH (COORDINATE FINISH WITH PARKS DEPARTMENT)		
TURF, GRAVELS, & MULCHES			
	ROCK TO MATCH THAT USED IN R.O.W., 3" DEPTH W/ DEWITT PRO-5 WEED BARRIER FABRIC		
	3/8" PEA GRAVEL, 3" DEPTH W/ DEWITT PRO-5 WEED BARRIER FABRIC		

LANDSCAPE NOTES

- ALL UTILITY EASEMENTS SHALL BE MARKED PRIOR TO EXCAVATION, AND PARTICULAR ATTENTION PAID TO TREE PLACEMENT WITHIN AND THROUGHOUT SITE.
- THERE SHALL BE NO STEEL EDGING BETWEEN ROCK TYPES.
- CONTRACTOR SHALL PROVIDE ROCK SAMPLES AND OBTAIN APPROVAL FROM LANDSCAPE DEPARTMENT AND PARKS DEPARTMENT PRIOR TO FINAL DELIVERY OF QUARRIED MATERIALS.
- CONTRACTOR TO PAY CLOSE ATTENTION TO FINISH GRADES. SHOULD GRAVELED AREAS EXCEED 4:1 SLOPE, CONTRACTOR TO OBTAIN APPROVAL OF LANDSCAPE DESIGNER PRIOR TO MULCH INSTALLATION.
- ALL TREES SHALL BE SINGLE LEADER TRUNK, UNLESS INDICATED IN PLANS.

PARKS DEPARTMENT
 Antonio del Rio 10/12/2010
 Approved

desert elements
 LANDSCAPE DESIGN, LLC
 1-3 ardovino drive, sunland park, new mexico 88063
 DE-jennifer@elp.r.r.com • phone: 575.589.9100 • fax: 575.589.9104

REVISIONS:
 NO. DATE REFERENCE

THESE DOCUMENTS HAVE BEEN PREPARED SPECIALLY FOR THE FOLLOWING PROJECTS:
AMERICAS ESTATES

THEY ARE NOT SUITABLE FOR USE ON OTHER PROJECTS OR IN OTHER LOCATIONS WITHOUT THE APPROVAL AND PARTICIPATION OF THE ARCHITECT. REPRODUCTION IS PROHIBITED.

CEA GROUP
 COPYRIGHT 2008

ENG. SEAL:

MESQUITE TRAILS PLACITAS
MESQUITE TRAILS UNIT SIX

DESIGN SERVICES BY:

 engineers • architects • planners
 Casstner Center @ Transmountain
 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915.541.5232 Fax: 915.541.5233 www.ceagroup.net

PROJECT NO.:
LANDSCAPE

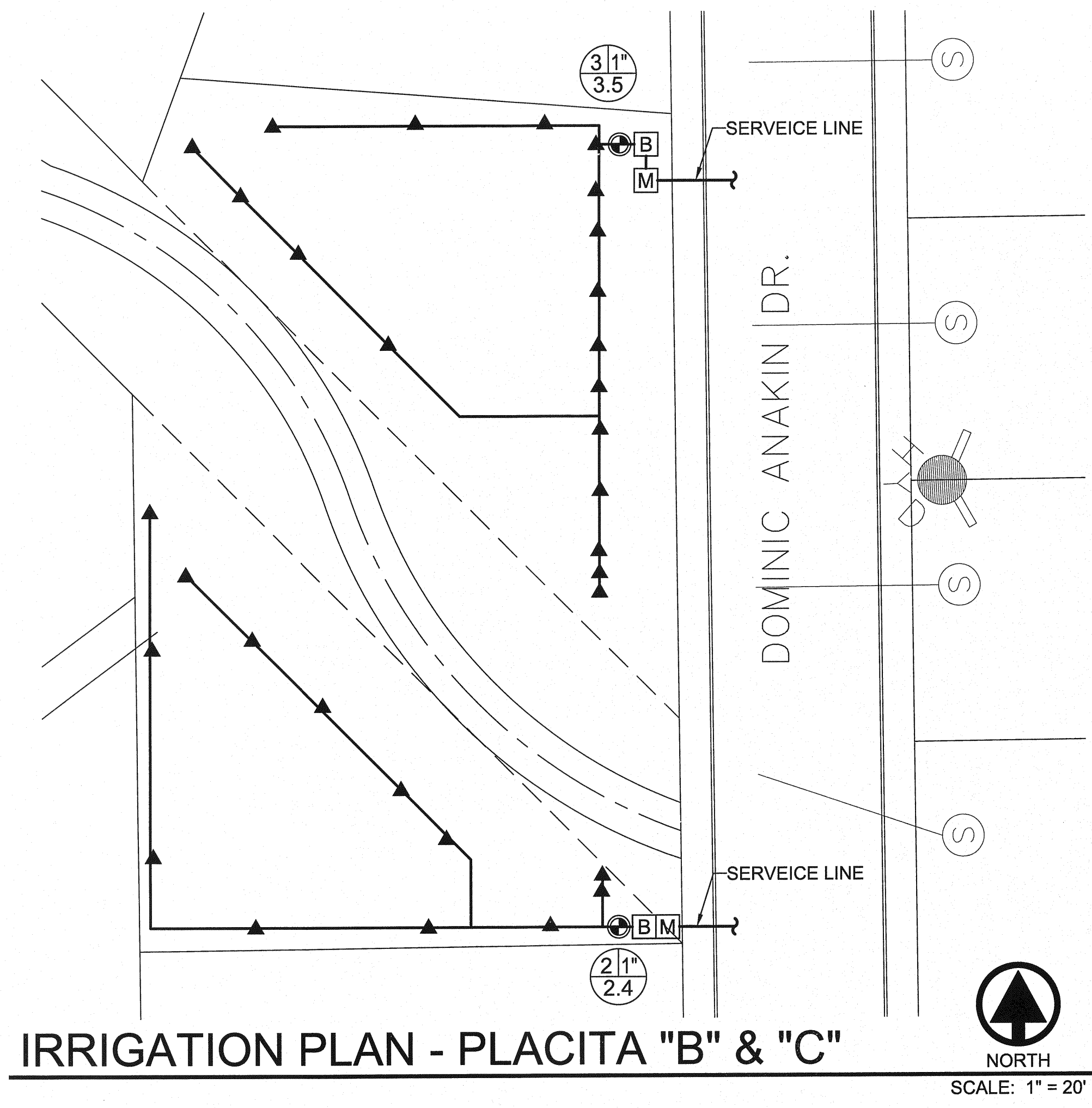
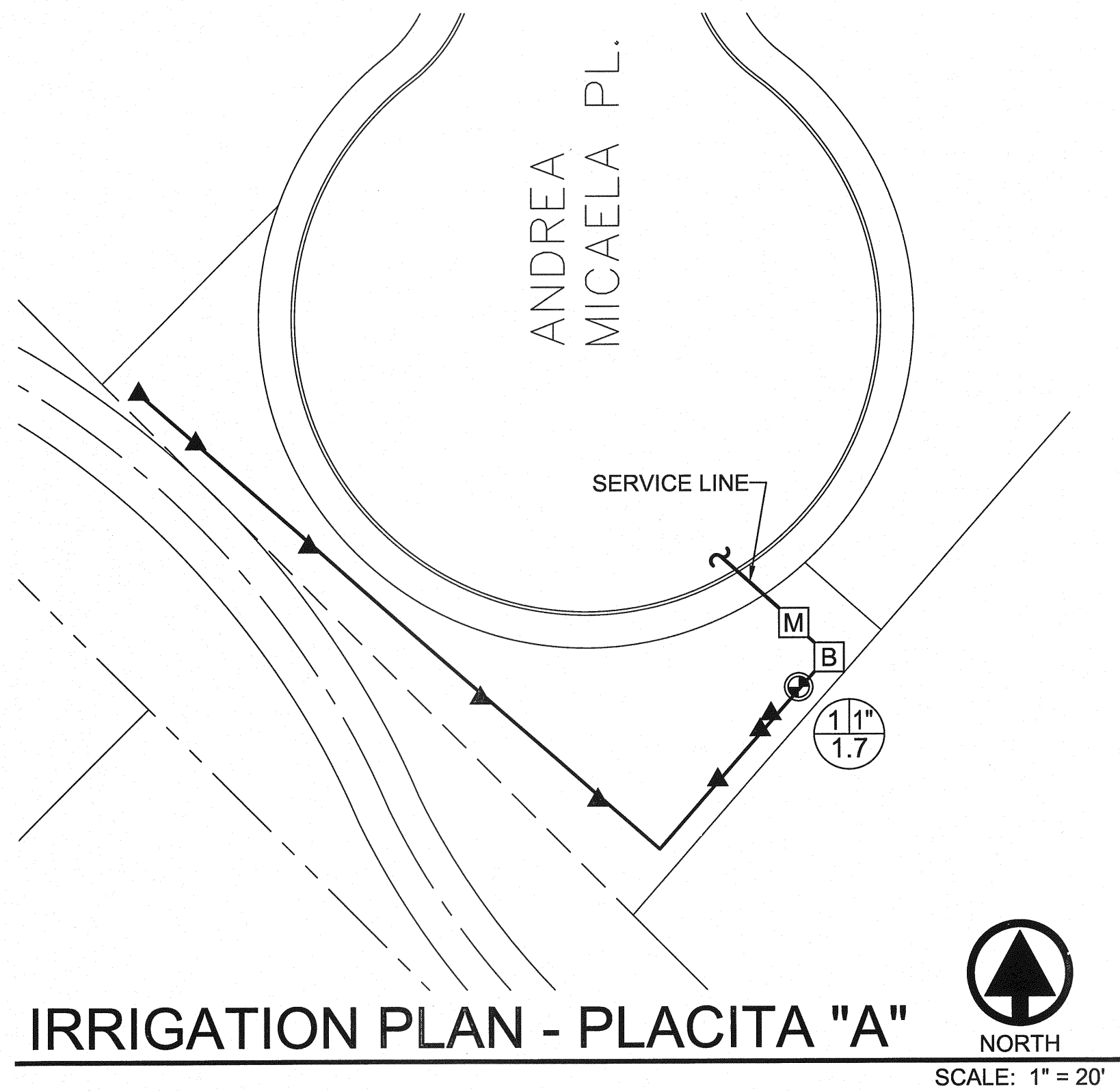
SHEET NAME:
L1.00

DATE ISSUED:
08/12/10

WARNING!!! BEFORE YOU DIG		
COORDINATION WITH UTILITIES: CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.		
TEXAS GAS SERVICE 4700 POLLARD ST. EL PASO, TEXAS 79930 ARMANDO REDA, 680-7243	EL PASO ELECTRIC CO. 501 WEST SAN ANTONIO ST. EL PASO, TEXAS 79901 MR. BILL ENGELS, (915) 543-4108 MOBILE, (915) 539-7184	EL PASO WATER UTILITIES 1154 HAWKINS DR. EL PASO, TEXAS 79927 (915) 594-3540
AT&T 11200 PELLICANO DR. EL PASO, TEXAS 79935 MR. JOE GRANADOS (915) 595-9140	TIME WARNER COMMUNICATIONS #20 CONCORD ST. EL PASO, TEXAS 79906 CONSTRUCTION, (915) 775-7414	TEXAS EXCAVATION SAFETY SYSTEM ANYWHERE IN TEXAS 1-800-344-8377

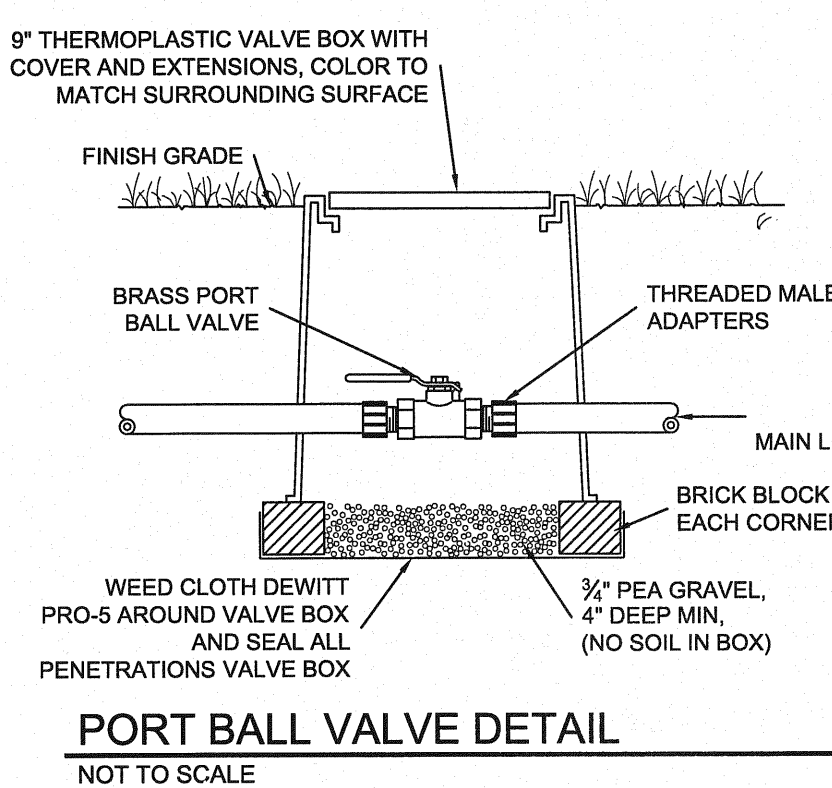
IRRIGATION NOTES

- IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13067, AUSTIN, TX 78711.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- IRRIGATION SHALL BE INSTALLED ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS. SHOULD CHANGES BE IMPLEMENTED IN THE FIELD, A NEW SET OF PLANS IS REQUIRED TO BE SUBMITTED TO THE CITY OF EL PASO. LANDSCAPE DESIGNER IS NOT UNDER CONTRACT TO PROVIDE THESE PLANS, EXCEPT AS PROVIDED FOR IN ORIGINAL CONTRACT.
- CONTRACTOR WILL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM IRRIGATION SYSTEM AS DESIGNED, WHEN IT IS OBVIOUS THAT FIELD CONDITIONS EXIST, THAT WERE NOT CONSIDERED AT TIME OF DESIGNING THE SYSTEM. ANY CONDITIONS NOTED AS SUCH, SHALL BE REPORTED TO THE ARCHITECT AND IRRIGATION DESIGNER. IF THE CONTRACTOR FAILS TO DO SO, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY CORRECTIONS NEEDED.
- PLANS SCHEMATIC FOR READABILITY. CONTRACTOR TO ADJUST AS NECESSARY TO FIT SITE.
- CONTRACTOR SHALL VERIFY STATIC PRESSURE AT METER MEETS SYSTEM NEEDS. LICENSED IRRIGATOR TO AMEND AS NECESSARY.
- PROVIDE SHUTOFF VALVE BETWEEN METER AND BACKFLOW.
- CONTROL VALVE SHALL BE PROVIDED TO MAINLINE AFTER BACKFLOW.
- CONTRACTOR IS RESPONSIBLE FOR CONNECTING AUTOMATIC CONTROLLER TO ELECTRICITY.
- 14 GA. SOLID COPPER WIRE (PVC INSULATED AND UL APPROVED) SHALL RUN FROM CONTROLLER TO VALVES. COMMON WIRE TO BE 12GA.
- ALL CONTROL WIRING FROM THE VALVES TO THE CONTROLLER MUST BE INSTALLED IN A 1" PVC CONDUIT PIPE IF BURIED BENEATH CONCRETE OR ASPHALT SURFACES.
- LOCATE VALVES AWAY FROM LOW SPOTS OR AREAS OF DRAINAGE FLOW.
- VALVE CAPS SHALL MATCH COLOR OF SURROUNDING MATERIAL, AS CLOSELY AS POSSIBLE.
- ALL MAINLINES SHALL BE BURIED MIN. 18", ALL LATERALS 12".
- MAINTAIN 4" MINIMUM CLEARANCE BETWEEN PIPE RUNNING IN THE SAME TRENCH. CONTROL WIRE SHALL ALWAYS BE TO THE SIDE AND BELOW THE TOP OF THE PIPE RUNNING IN THE SAME TRENCH.
- POLYETHYLENE TUBING TO BE PLACED UNDER WEED BARRIER FABRIC. MICROTUBING TO BE STAKED.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AS-BUILT DRAWINGS ON MYLAR PRIOR TO APPROVAL OF FINAL PAYMENT.
- ALL PIPING/WIRING RUNNING BENEATH PAVED SURFACES (DRIVES, SIDEWALKS, ETC.) SHALL BE INSTALLED IN CLASS 200 PVC SLEEVES. SLEEVES SHALL BE OF THE SIZE SO THAT THE INSIDE DIAMETER OF THE SLEEVE IS 2 TIMES GREATER THAN THAT OF THE COMBINED OUTER DIAMETER OF ALL ITEMS INSTALLED IN THE SLEEVES.

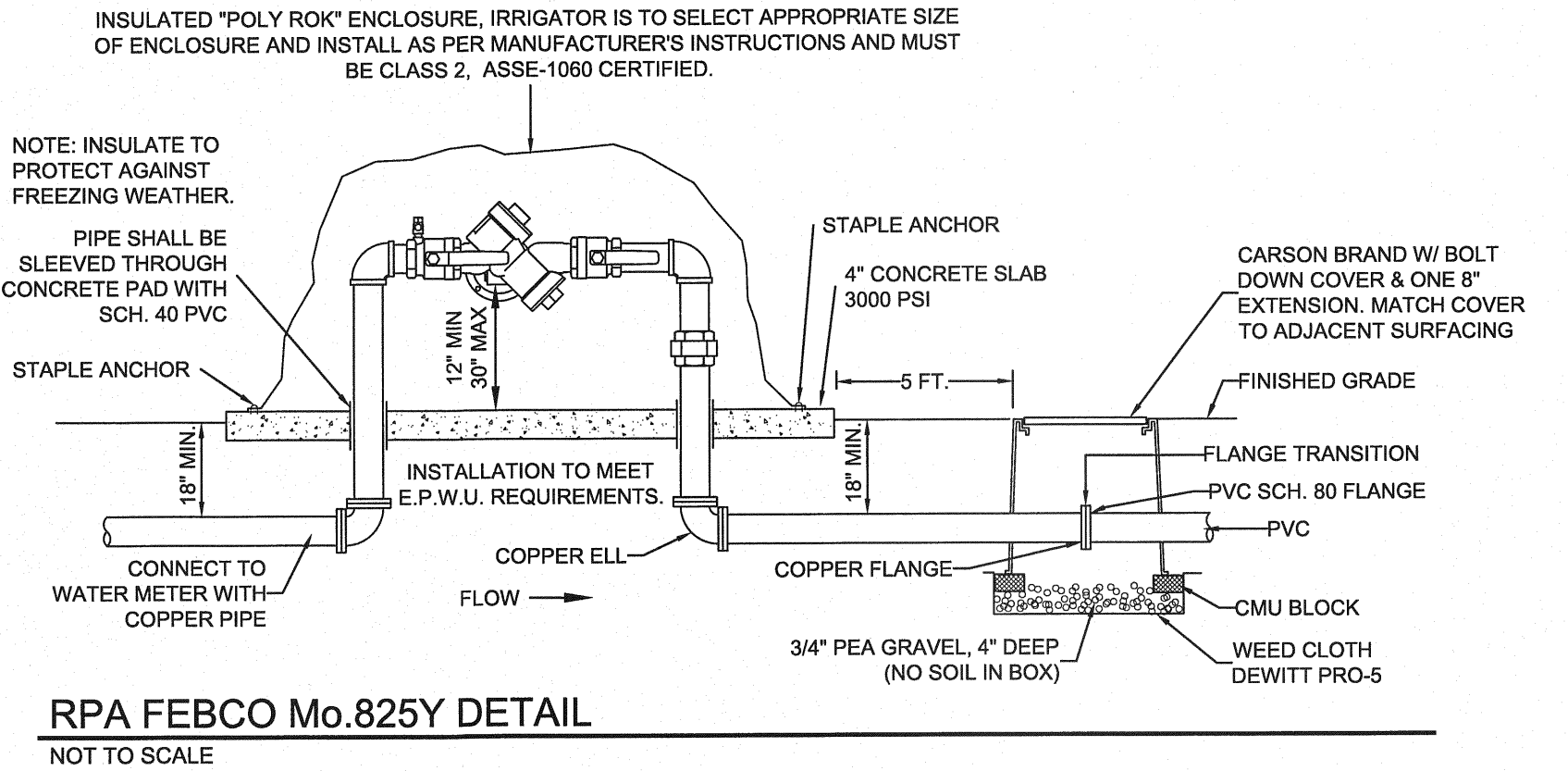


IRRIGATION LEGEND

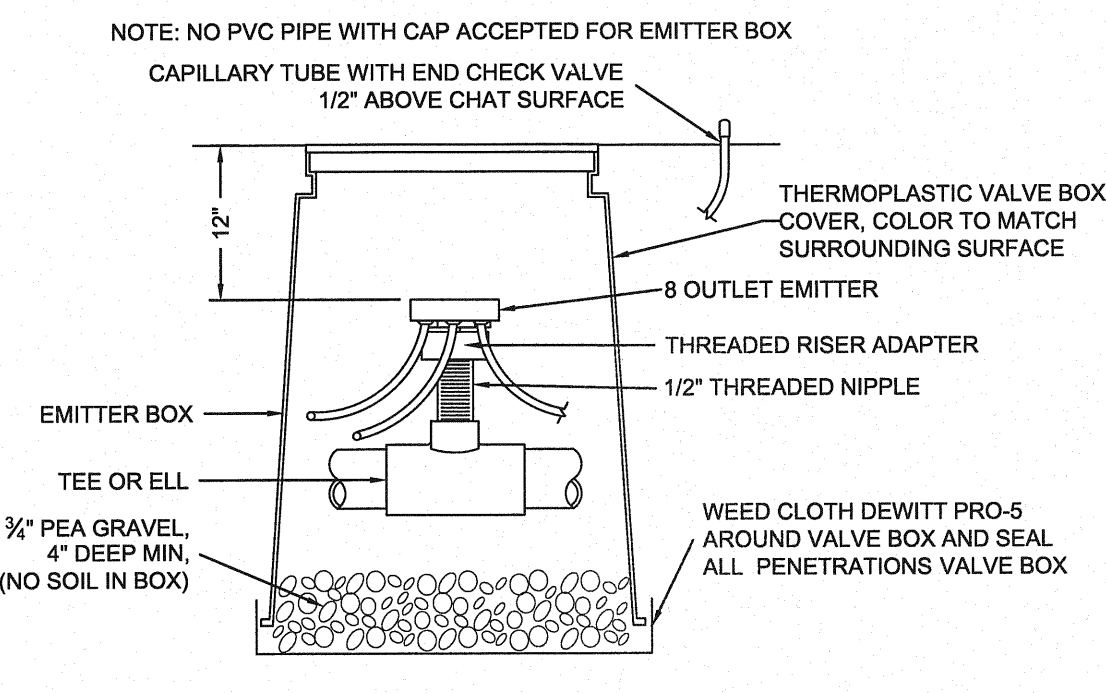
SYMBOL	ITEM
M	3/4" WATER METER (BY OWNER)
B	3/4" FEBCO 825Y RP BACKFLOW PREVENTER W/ POLYROK ENCLOSURE (BROWN) - MUST NOTE CLASS 2, ASSE #1060 FOR BACKFLOW
⊙	1" REMOTE CONTROL VALVE, RAINBIRD 100-PESB W/ AMIAD Y FILTER AFTER THE VALVE RAIN BIRD TBOS CONTROLLER/ WITH POTTED LATCHING SELENOID & TBOS FIELD TRANSMITTER (SEE DETAIL FOR INSTALLATION)
---	1" MAINLINE - CLASS 200 PVC
---	LATERAL LINE - CLASS 200 PVC - 1" UNLESS OTHERWISE INDICATED
▲	PEPCO OCTABUBBLER - BLUE 2 GPH RAINBIRD XB-10 DRIP EMITTERS - 2 PER SHRUB & GROUND COVER RAINBIRD XB-20 DRIP EMITTERS - 8 PER TREE
A/B/C	A) STATION NUMBER B) SIZE OF VALVE IN INCHES C) TOTAL GPM



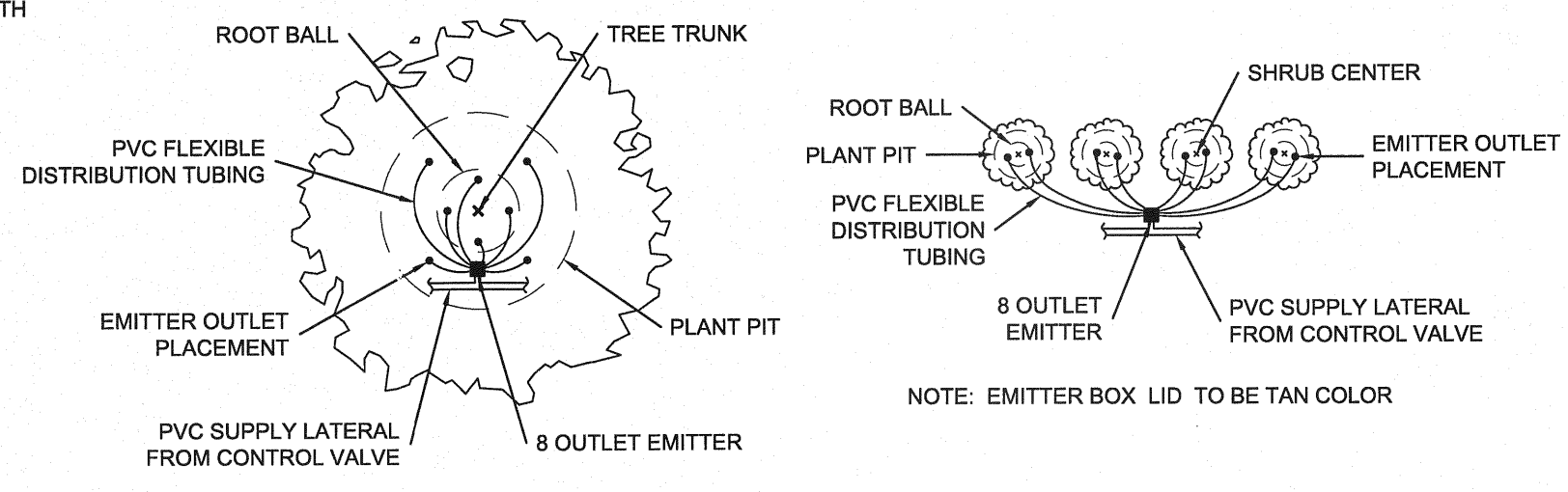
PORT BALL VALVE DETAIL
NOT TO SCALE



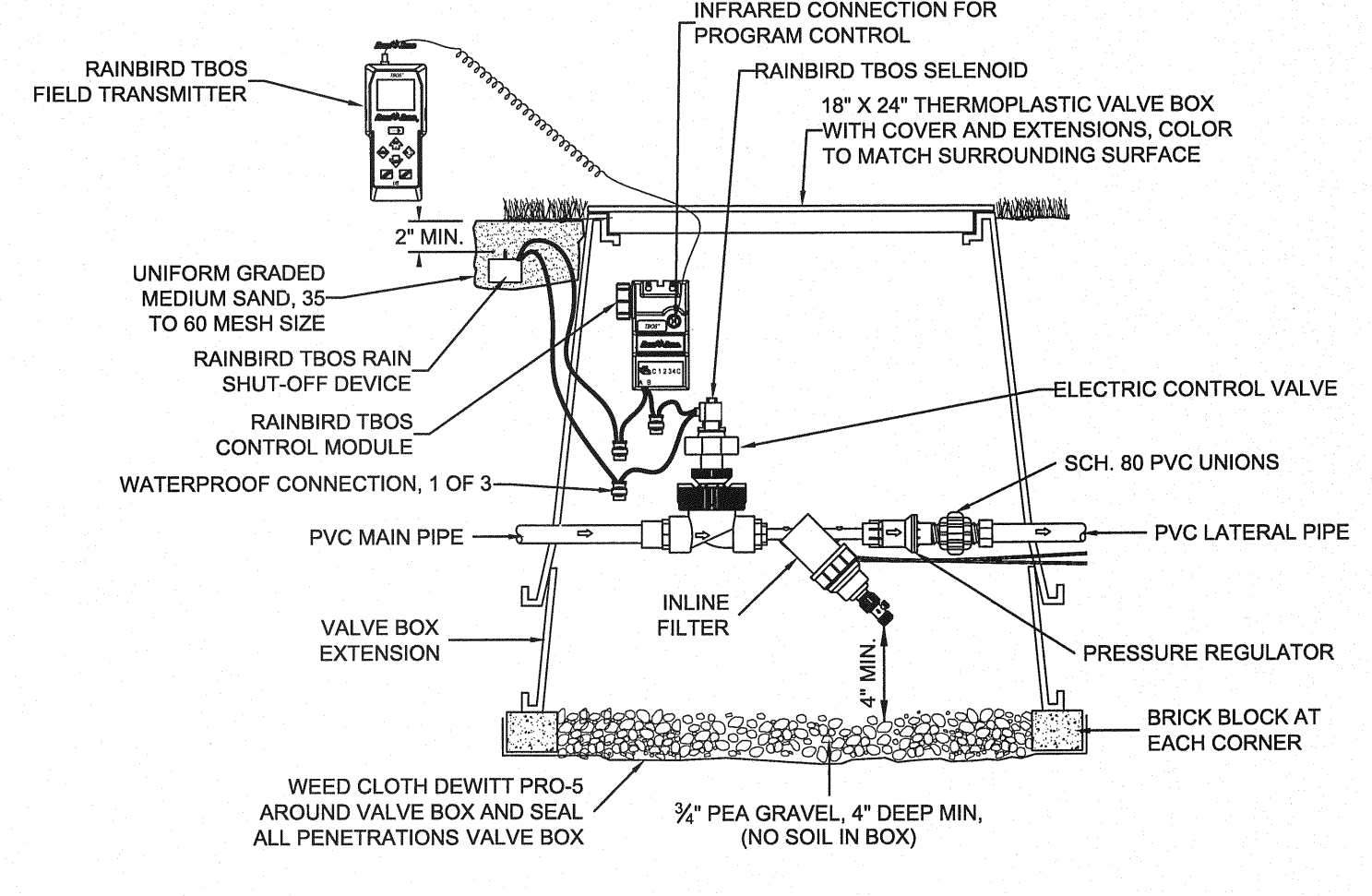
RPA FEBCO Mo.825Y DETAIL
NOT TO SCALE



DRIP EMITTER DETAIL
NOT TO SCALE



EMITTER OUTLET PLACEMENT DETAIL
NOT TO SCALE



TBOS BATTERY OPERATED CONTROLLER W/ TRANSMITTER & REMOTE CONTROL VALVE, PRESSURE REGULATOR & FILTER
NOT TO SCALE

REVISIONS:		
NO.	DATE	REFERENCE

THESE DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY FOR THE FOLLOWING PROJECT:
AMERICAS ESTATES

THEY ARE NOT SUITABLE FOR USE ON OTHER PROJECTS OR IN OTHER LOCATIONS WITHOUT THE APPROVAL AND PARTICIPATION OF THE ARCHITECT. REPRODUCTION IS PROHIBITED.

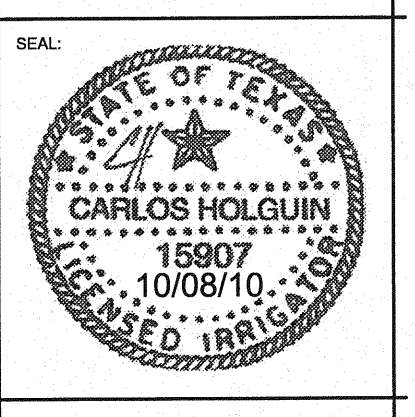
CEA GROUP
COPYRIGHT 2008

DESIGN SERVICES BY:

MESQUITE TRAILS PLACITAS

MESQUITE TRAILS UNIT SIX

cea
GROUP
engineers • architects • planners
Castner Center @ Transmountain
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.544.5202 Fax: 915.544.5235 www.ceagroup.net



PROJECT NO:	
SHEET NAME:	IRRIGATION
DATE ISSUED:	08/12/10

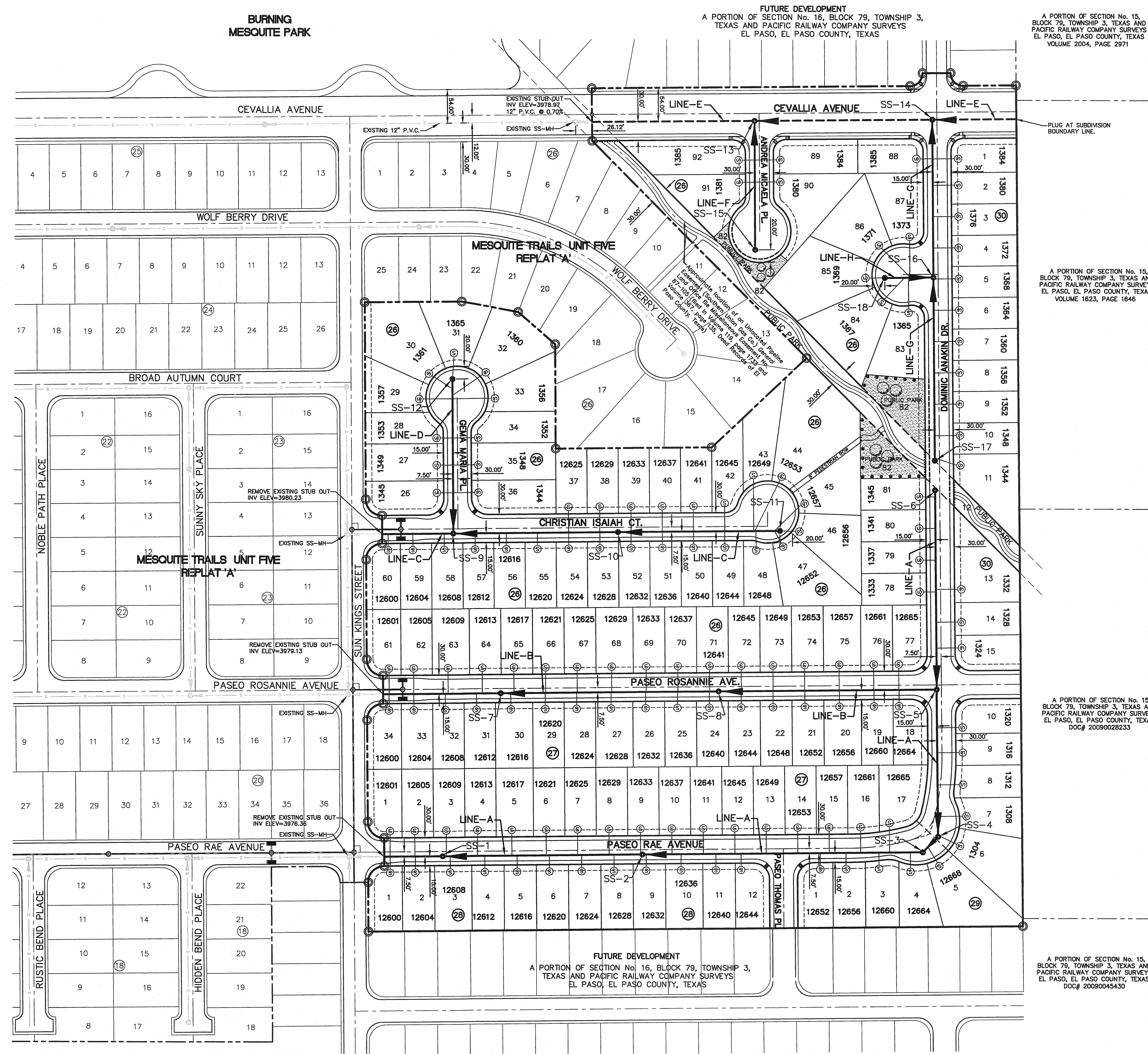
PARKS DEPARTMENT

Antonio de la... 10/12/2010

Approved

desert elements
LANDSCAPE DESIGN, LLC

1-3 ardovino drive, sunland park, new mexico 88063
DE-jennifer@elp.rr.com • phone: 575.589.9100 • fax: 575.589.9104



SANITARY INDEX MAP
SCALE: 1" = 100'

GENERAL NOTES

- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE PROPOSED SEWER MAINS AND SEWER MANHOLES SHALL BE INSTALLED NO LESS THAN 10' AWAY FROM EXISTING WATER LINE.
- THE INTENT OF THE OWNER IS TO HAVE THE SANITARY SEWER PIPELINES INSTALLED TO SUCH A DEPTH THAT THEY WILL HAVE AT LEAST 48" OF COVER BELOW PROPOSED GROUND AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, SAGS OR HUMPS OR OTHER IRREGULARITIES IN VERTICAL ALIGNMENT. CONSIDERING UTILITIES AND OTHER CONDITIONS, VARIANCE FROM GRADE PROFILE IS NOT RECOMMENDED IF OTHER EXISTING UTILITIES OR OBSTRUCTIONS ARE ENCOUNTERED DURING THE WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO INSTALLING THE SEWER PIPELINE SO THAT AN ACCEPTABLE PROFILE CAN BE ESTABLISHED PRIOR TO INSTALLATION OF THE PIPELINE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN IN THE PLANS, AND COORDINATE HIS WORK WITH ALL UTILITY COMPANIES, EL PASO WATER UTILITIES AND CITY OF EL PASO PRIOR TO CONSTRUCTION. ALL EXISTING UTILITY DEPTHS ARE UNKNOWN. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ACQUIRING FIELD DEPTHS OF ALL UTILITIES WITH THE PROJECT AREAS.
- TRENCH SAFETY REQUIREMENTS SHALL COMPLY WITH CURRENT OSHA REGULATIONS.
- AS-BUILT STATIONING, OFFSET FROM R.O.W. AND INVERT ELEVATIONS SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR ON A CLEAN SET OF PLANS FOR EACH MANHOLE, SERVICE CONNECTION AND/OR STUB-OUT, WITH RESPECT TO THE APPROPRIATE PROJECT CONTROL POINT.
- THE EL PASO WATER UTILITIES AND CITY OF EL PASO MUST BE NOTIFIED 48 HOURS PRIOR TO COMMENCING ANY WORK IN AREAS WITHIN THEIR JURISDICTION. A COPY OF ALL FIELD SOIL DENSITY TESTS WITHIN THEIR RESPECTIVE R.O.W. SHALL BE FORWARDED TO THE DEVELOPER'S ENGINEER AND THE DEVELOPER BY THE CONTRACTOR.
- EXISTING STREETS, DRIVEWAYS AND ALL OTHER MISCELLANEOUS STRUCTURES DAMAGE OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION.

GENERAL UTILITIES:
TEXAS EXCAVATION SAFETY SERVICE
11884 GREENVILLE AVENUE,
DALLAS, TX. 75243
(800) 344-8377

ENGINEER:
CEA GROUP
CASTNER CENTER @ TRANSMOUNTAIN
4712 WOODROW BEAN, STE. F
EL PASO, TX. 79924
(915) 544-9232
MR. JORGE L. AZCARATE, P.E.

FIBER OPTICS:
U.S. SPRINT
151 N. BOONE ST.
EL PASO, TX. 79905
(915) 534-7910
MR. RICK DERAGSCH

FIBER OPTICS:
MCI TELECOMMUNICATIONS CORP.
4045 DONIPHAN PARK CIRCLE
EL PASO, TX. 79922
(915) 542-2770 EXT. 201
MR. DANIEL HERNANDEZ

WATER & SEWER:
EL PASO WATER UTILITIES
1154 HAWKINS BOULEVARD
EL PASO, TX. 79961
(915) 594-5530
MR. FELIPE LOPEZ, JR., P.E.

ELECTRIC:
EL PASO ELECTRIC CO.
501 W. SAN ANTONIO ST.
EL PASO, TX. 79902
(915) 543-2078
MR. FRANK VIGEL (DISTRIBUTION)

EL PASO STREETS
CITY OF EL PASO
STREETS DEPARTMENT
7969 SAN PAULO DRIVE
EL PASO, TX. 79907
(915) 621-6750
MR. DARYL W. COLE

CABLE TELEVISION:
TIME WARNER COMMUNICATIONS
7010 AIRPORT ROAD
EL PASO, TX. 79906
(915) 772-1123
MR. JOHN MARES

TELEPHONE:
SBC
11200 PELICANO
EL PASO, TX. 79935
(915) 595-5151
MR. TIM BROWN

FIBER OPTICS:
AT&T
P.O. BOX 1650
EL PASO, TX. 79949
(800) 852-3786
MS. DARLENE NORIS

RESIDENTIAL GAS LINES:
TEXAS GAS SERVICE
4700 POLLARD ST.
EL PASO, TX. 79930
(915) 680-7218
MR. ALEX LIMON

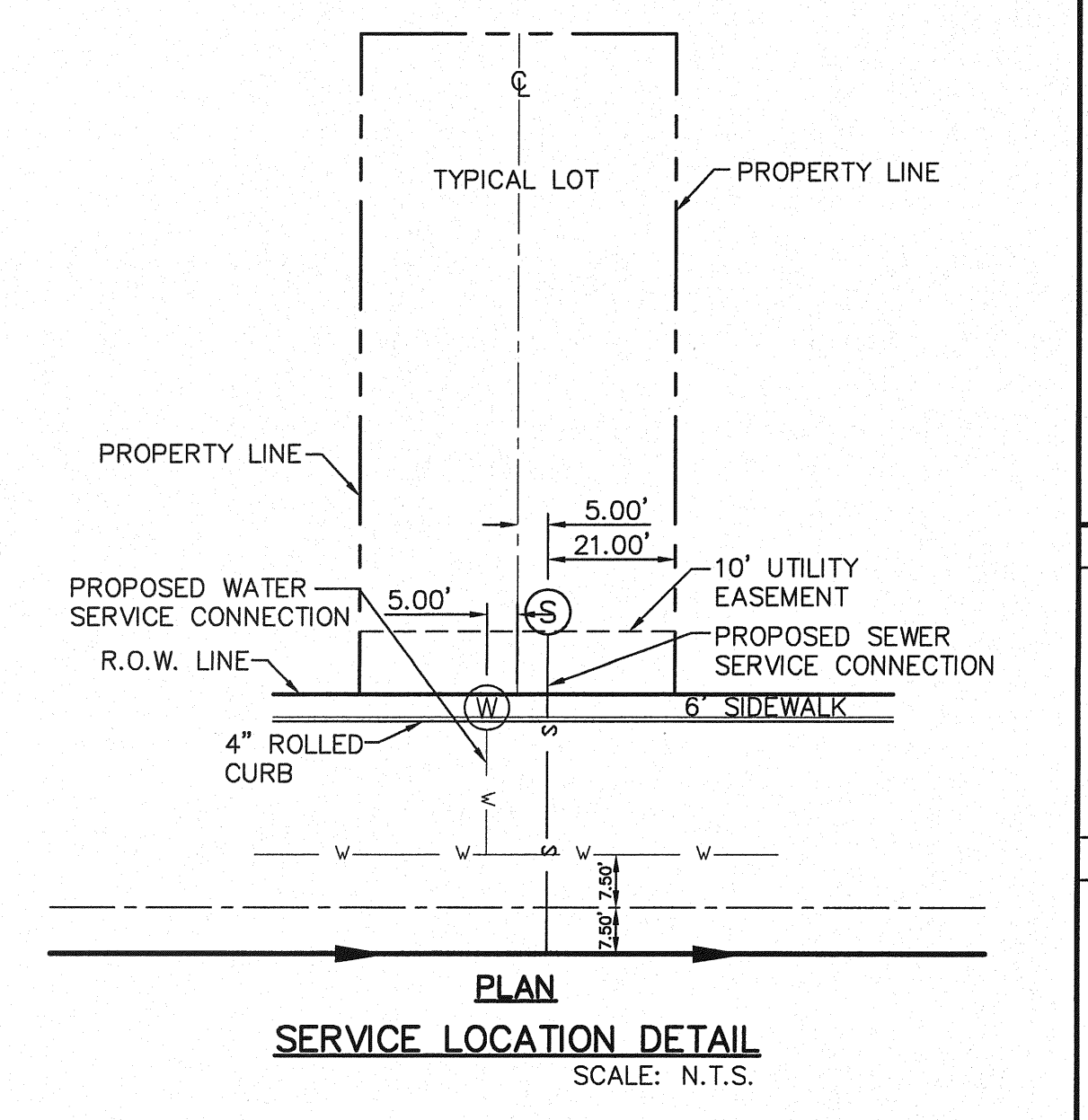
WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

NOTES:

ALL SEWER LINES SHALL BE PVC SDR35 PIPE UNLESS OTHERWISE REQUIRED BY THE EPWU/PSB RULES AND REGULATIONS AND DESIGN STANDARDS.

LEGEND

SYMBOL	DESCRIPTION
---	10' UTILITY EASEMENT
— S — S —	EXISTING SEWER LINE
— W — W —	EXISTING WATER LINE
— W — W —	PROPOSED WATER LINE
---	SUBD. BOUNDARY LINE
---	PROPERTY LINE
---	CENTER LINE
← 8" SWR SDR35	PROPOSED SEWER LINE (PLAN VIEW)
← 12" SWR SDR35	PROPOSED SEWER LINE (PLAN VIEW)
P.V.C. @ 0.40% Q=348 GPM	PROPOSED SEWER LINE (PROFILE VIEW)
—	PROPOSED STORM SEWER
⊙	PROPOSED MANHOLE (PLAN VIEW)
	PROPOSED 8" CAP
⊙	PROPOSED SERVICE CONNECTION (PLAN VIEW)
⊙	PROPOSED MANHOLE (PROFILE VIEW)
⊙	EXISTING MANHOLE (PROFILE VIEW)



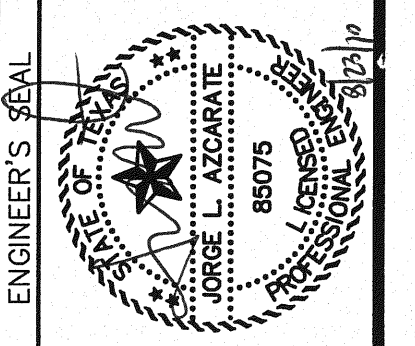
PLAN
SERVICE LOCATION DETAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM)

DATE	REVISIONS	BY

CEA GROUP
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4664
4712 Woodrow Bean, Ste. F, El Paso, TX 79924
Office: 915.544.9232 Fax: 915.544.5233 www.ceagroup.net



SCALE: 1" = 100'

Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2010
DESIGN BY:	F.Z.
DRAWN BY:	F.Z.
CHKD. BY:	J.L.A.
APPD. BY:	J.L.A.
JOB No.	2000-117-1D

MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS

SHEET TITLE
SANITARY SEWER INDEX
SHEET NO.
SS-1

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 690-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM)

CSA
ENGINEERS • ARCHITECTS • PLANNERS
TEXAS REGISTERED ENGINEERING FIRM F-464
4712 Woodrow Bean, Ste. F, El Paso, TX 79924
Office: 915.544.5222 Fax: 915.544.5223 www.csaonline.net

ENGINEER'S SEAL

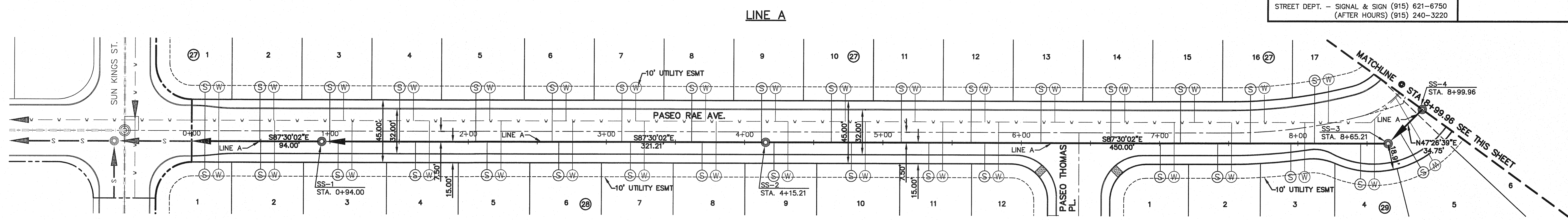
SCALE: 1"=40'
Horizontal: 1"=50'
Vertical: 1"=5'
Contour Interval: N/A

DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPD. BY: J.L.A.
JOB No.: 2000-117-1D

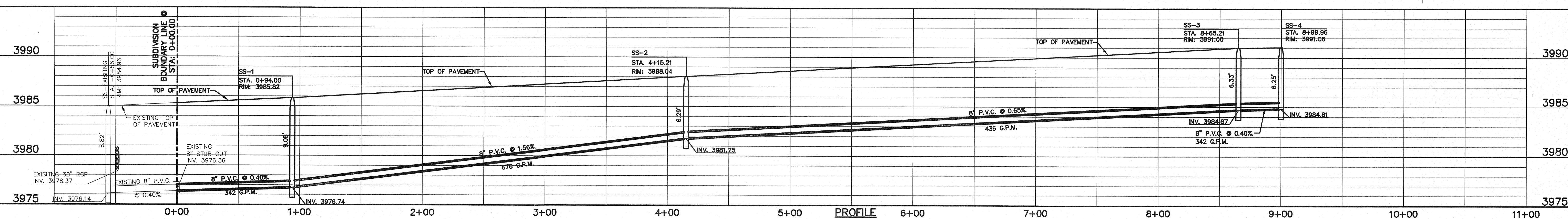
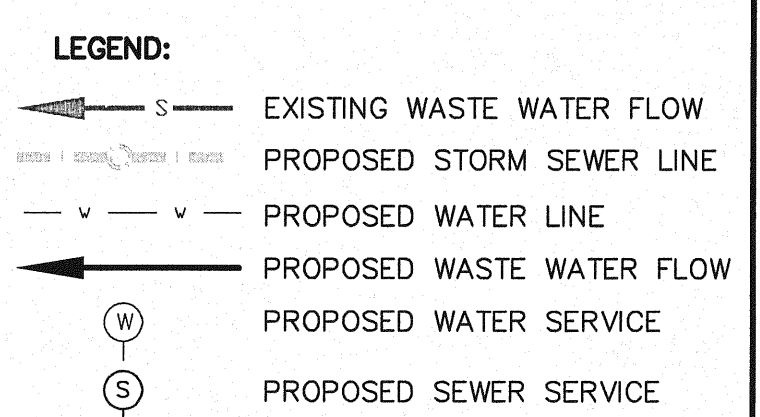
PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
SANITARY SEWER
PLAN & PROFILE
LINE A

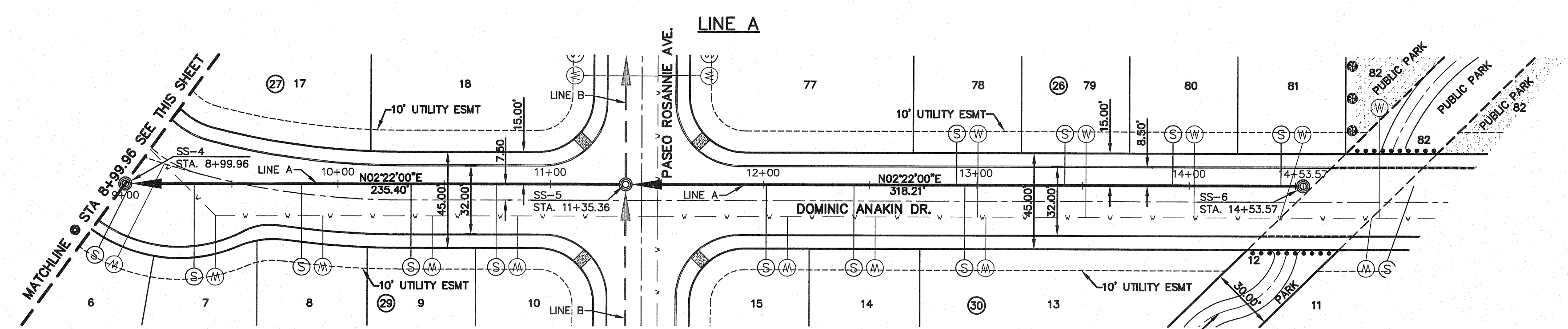
SHEET NO.
SS-2



PLAN

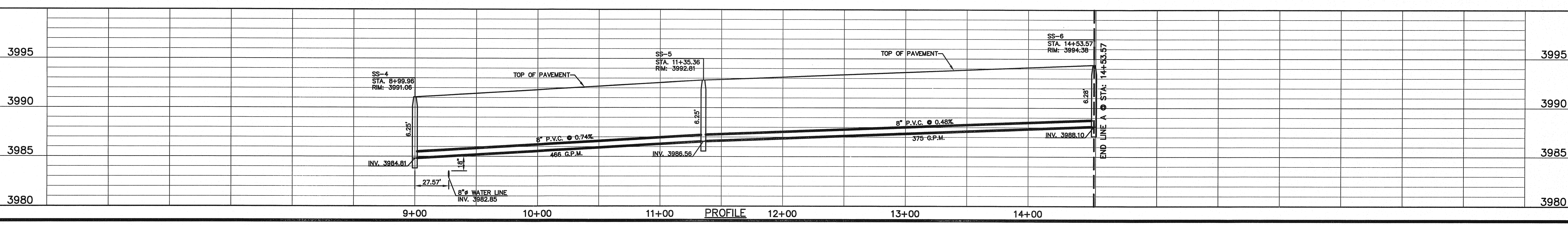


PROFILE



PLAN

Approximate location of an Unlocated Pipeline Easement (Southern Union Gas Co.) General Land Office file Miscellaneous Easement No. 87-105 (filed in Volume 119, page 1733 and Volume 367, page 135, Deed Records of El Paso County, Texas)



PROFILE

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
	(AFTER HOURS) (915) 240-3220

WARNING!
BEFORE YOU DIG

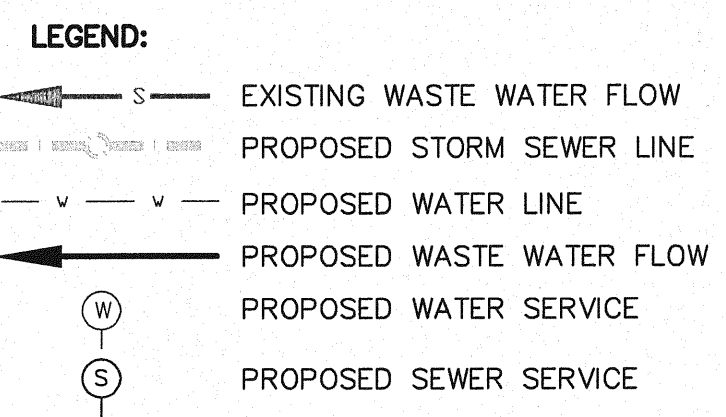
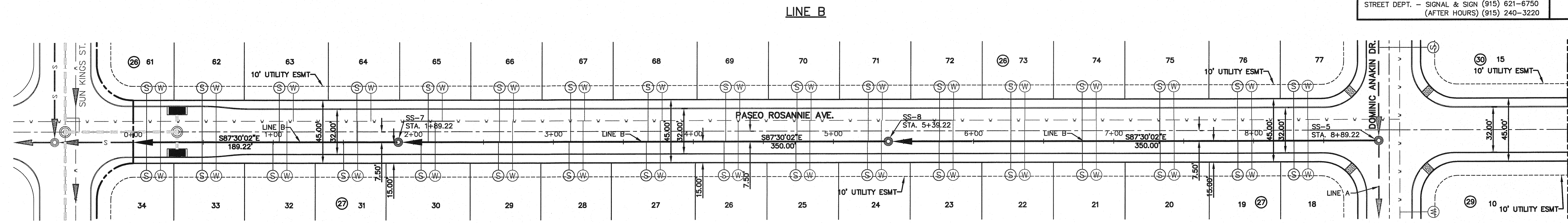
CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

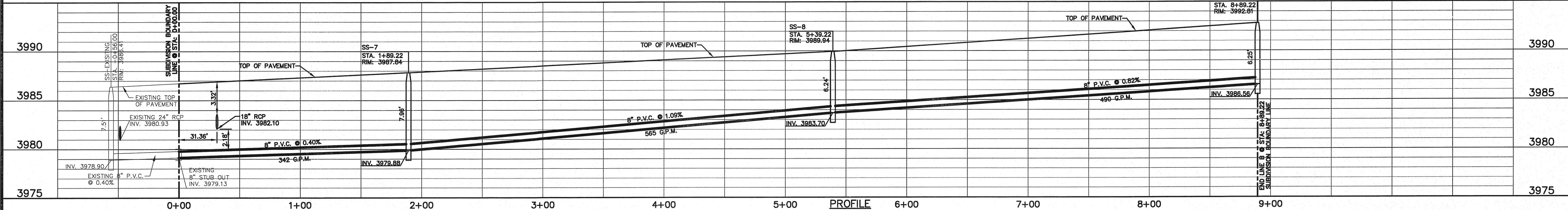
DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
 BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASADENA ALLEGRE CIRCLE AND PASADENA LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM).

CSA
 engineers • architects • planners
 TEXAS REGISTERED ENGINEERING FIRM F-454
 4712 Woodrow Bann, Ste. F El Paso, TX 79924
 Office: 915.544.6322 Fax: 915.544.5233 www.csaengr.com



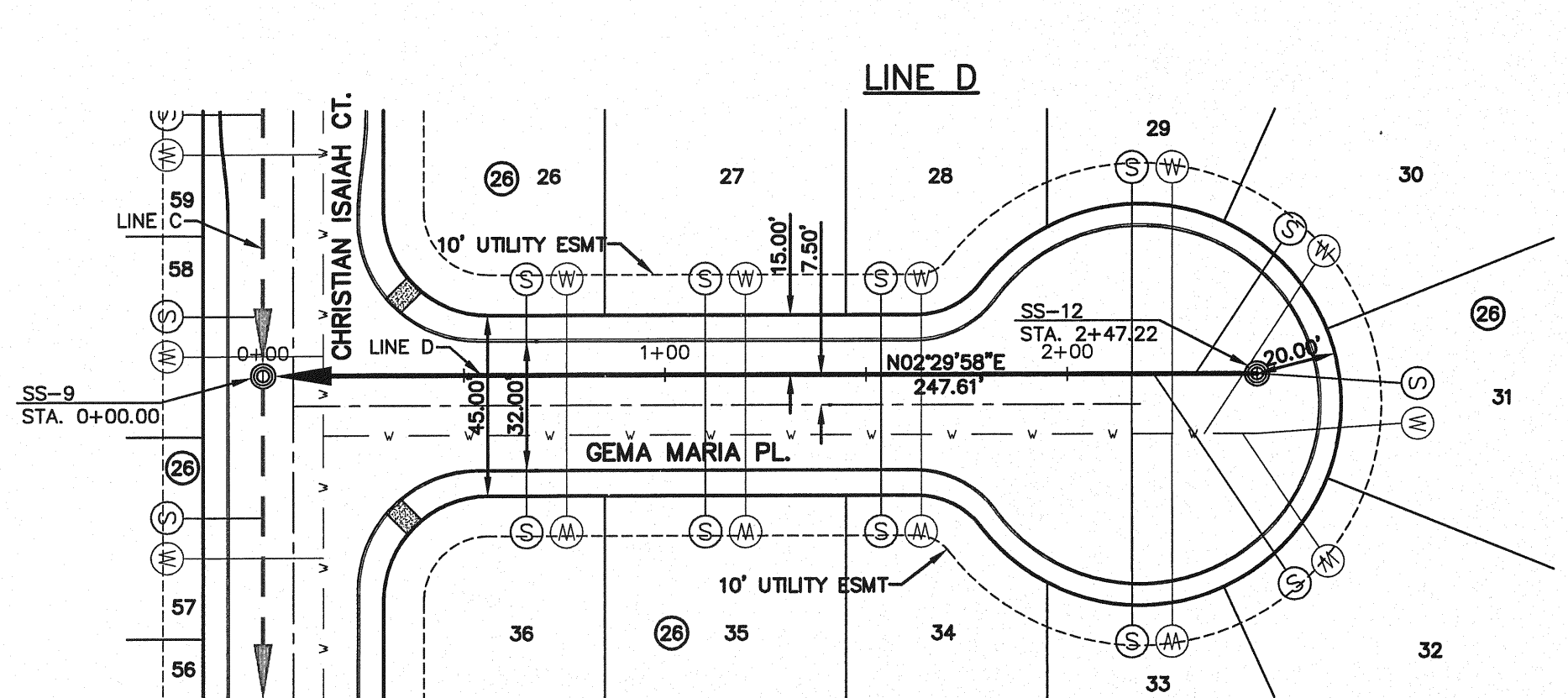
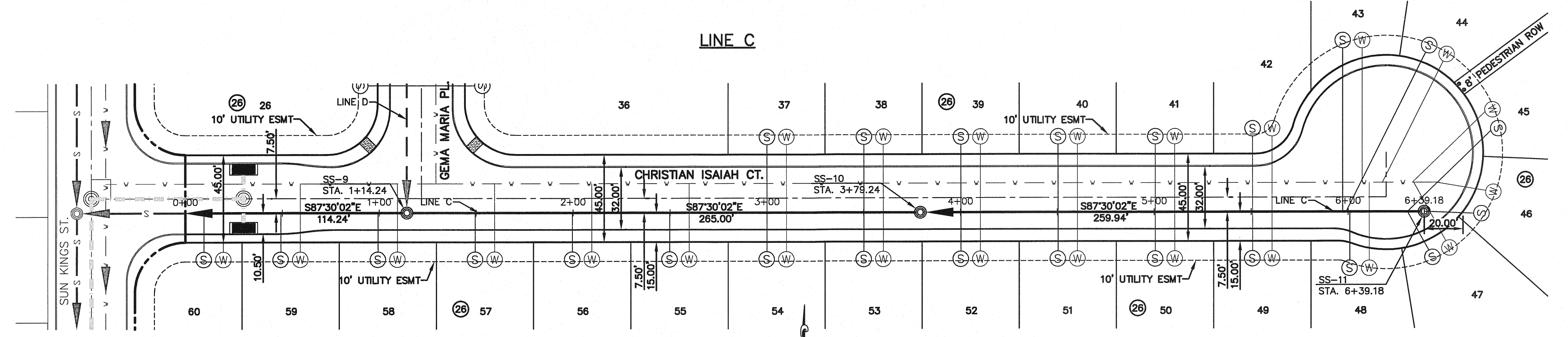
PLAN



ENGINEER'S SEAL

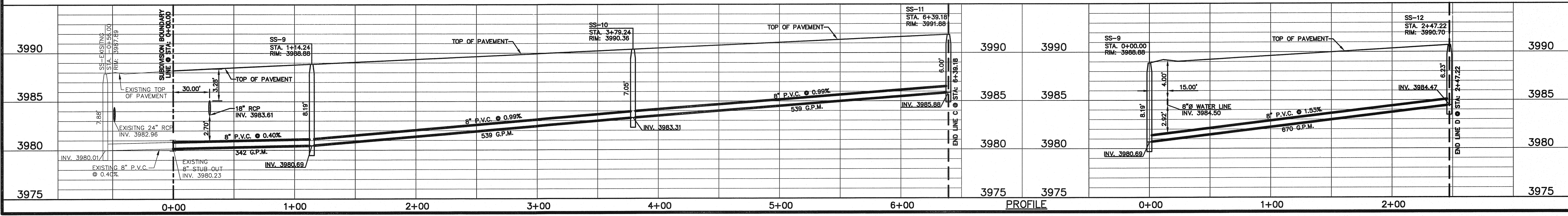
SCALE: Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A

DATE: JUNE 2010
 DESIGN BY: F.Z.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-117-LD



PLAN

PLAN



PROJECT NAME
**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
 PLAN & PROFILE
 LINE B, C, & D**

SHEET NO.
SS-3

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MO SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
	(AFTER HOURS) (915) 240-3220

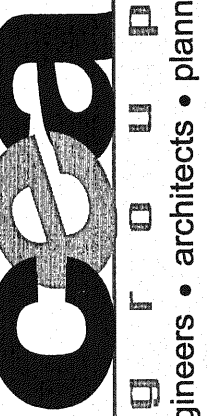
WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

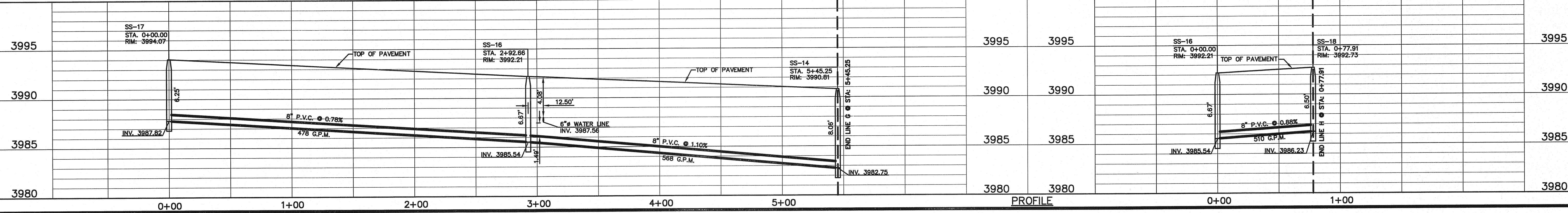
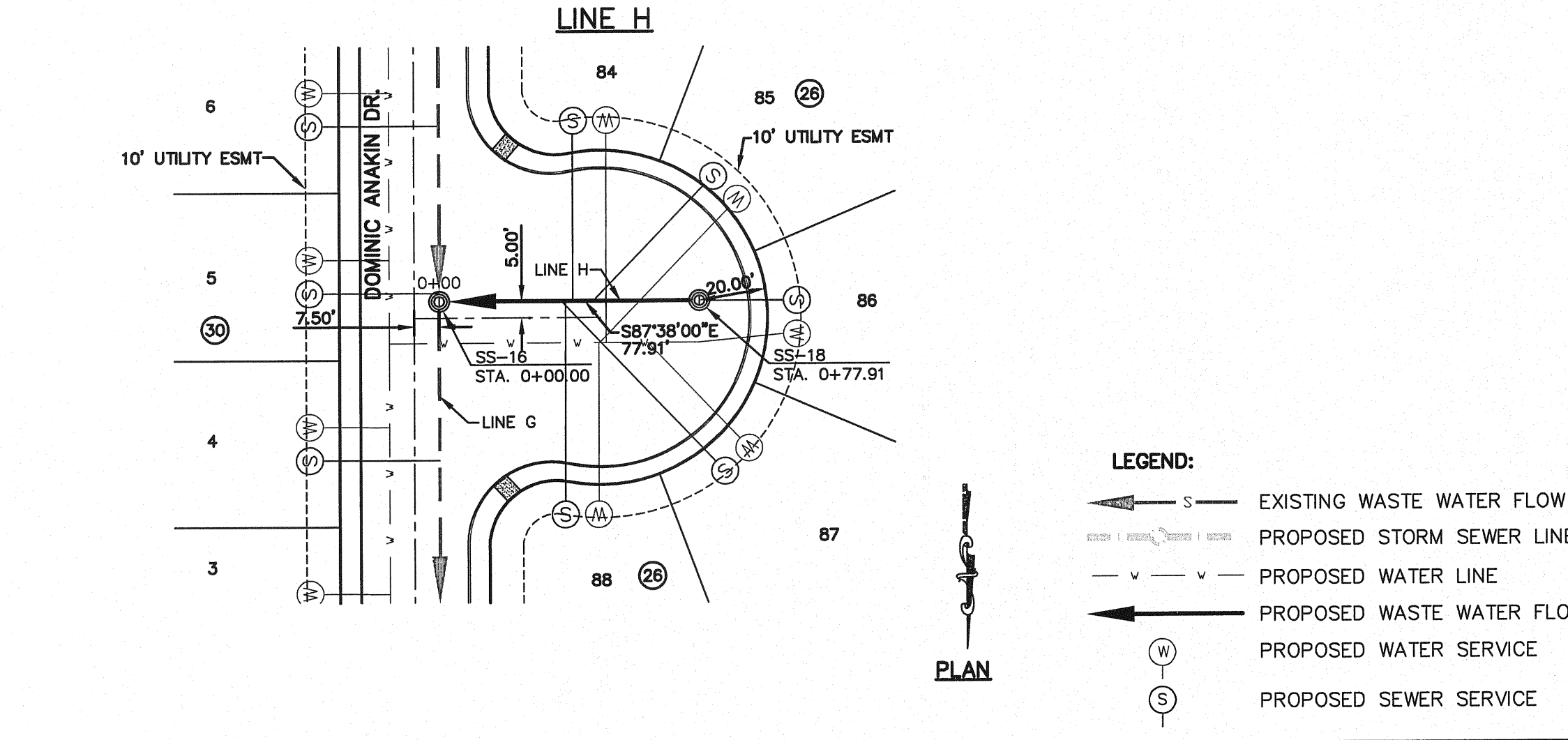
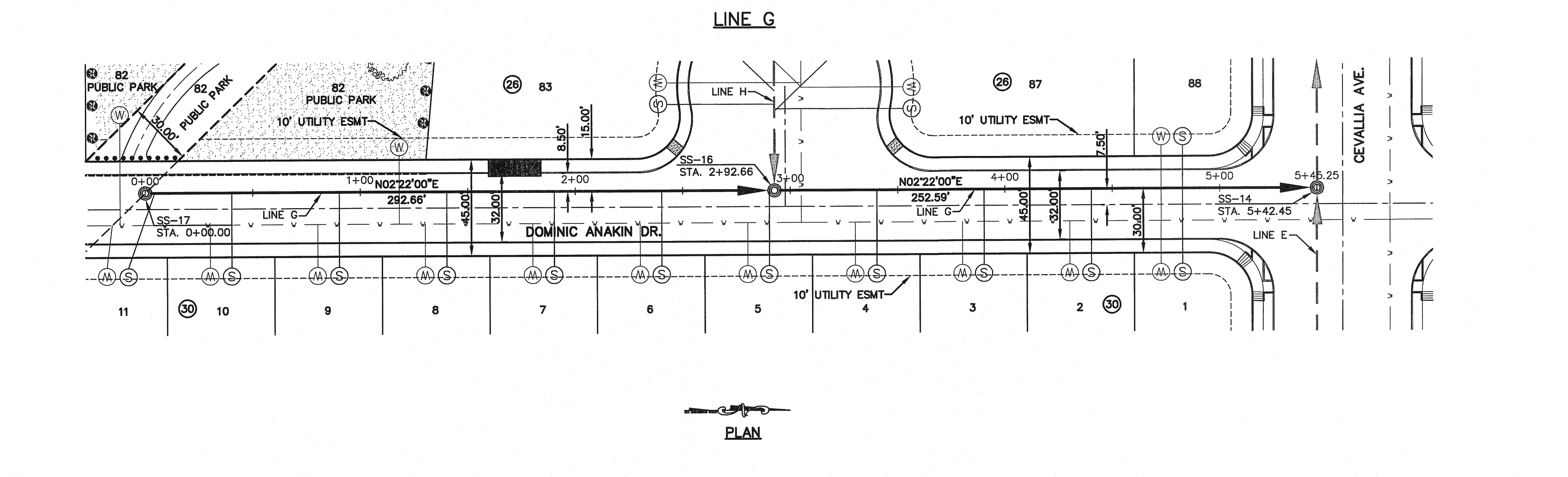
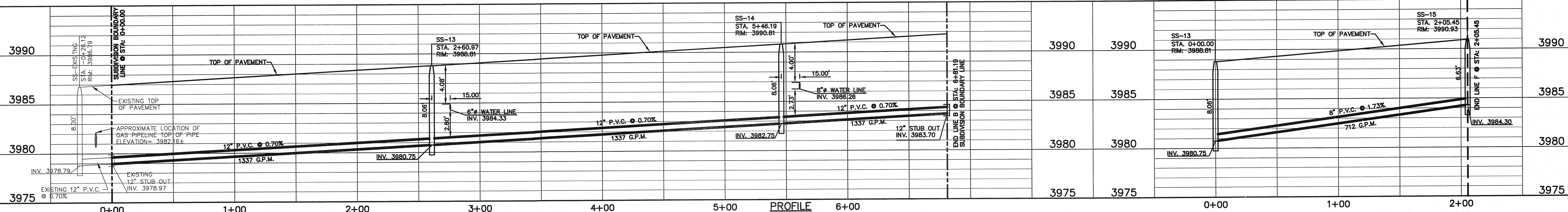
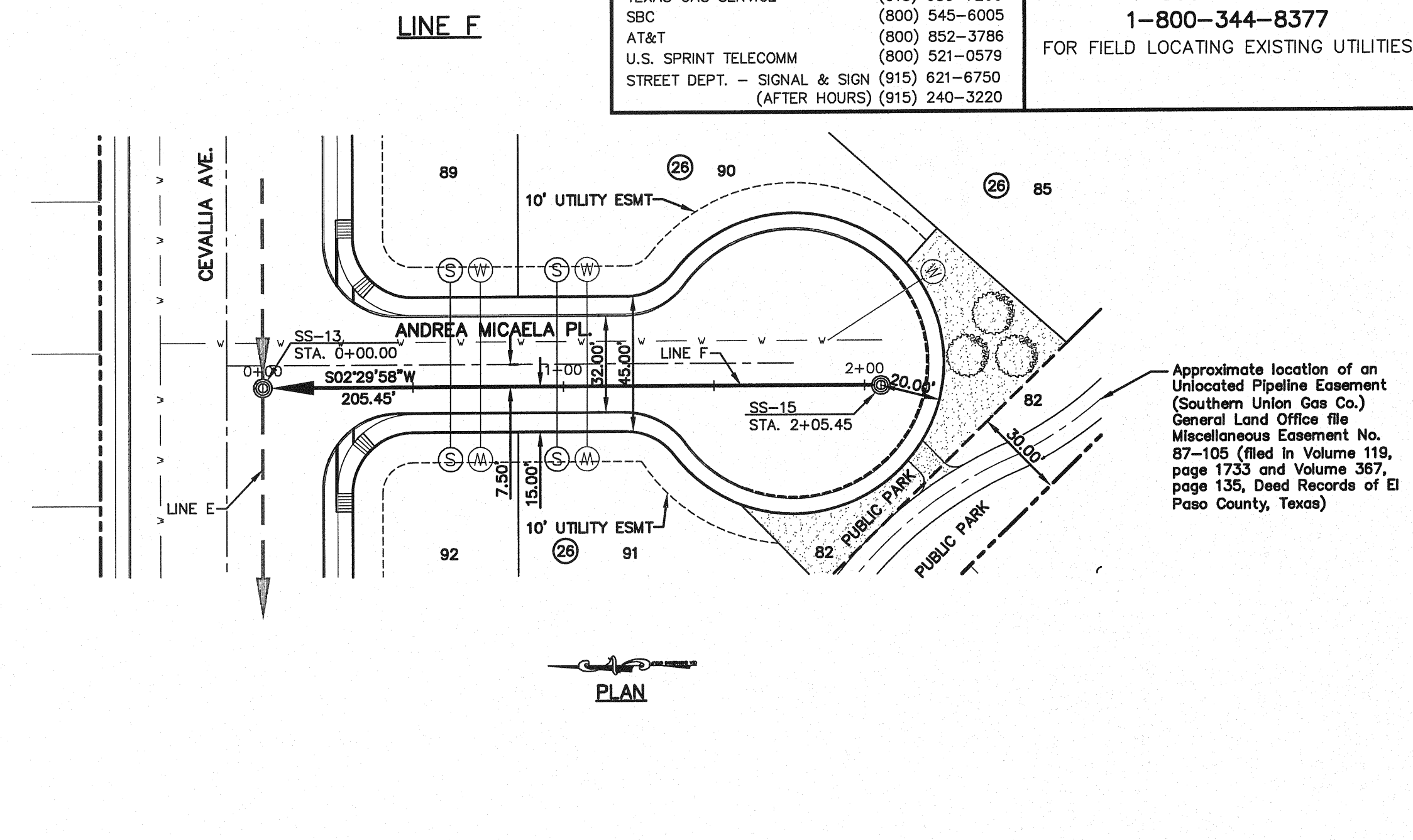
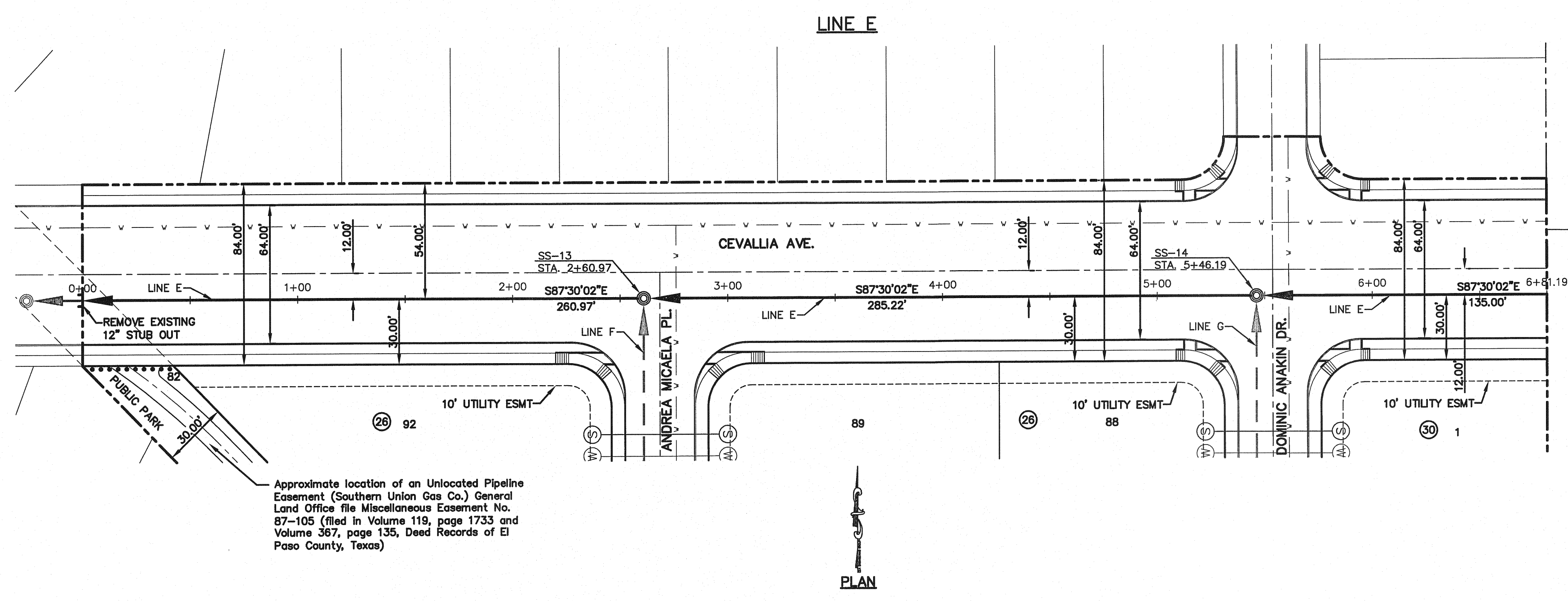
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

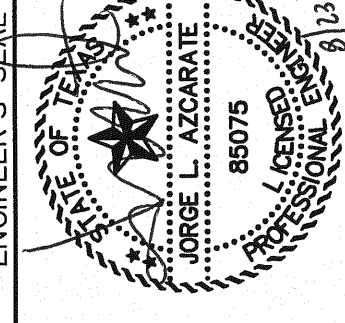
REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASO ALIGRE CIRCLE AND PASO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM)



engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-454
4712 Woodrow Bean, Ste. F, El Paso, TX 79924
Office: 915.544.5222 Fax: 915.544.5233 www.csaengr.com



ENGINEER'S SEAL



SCALE
Horizontal: 1"=40'
Vertical: 1"=5'

Contour Interval: N/A

DATE: JUNE 2010

DESIGN BY: F.Z.

DRAWN BY: J.M.

CHKD. BY: J.L.A.

APPVD. BY: J.L.A.

JOB No. 2000-117-LD

PROJECT NAME

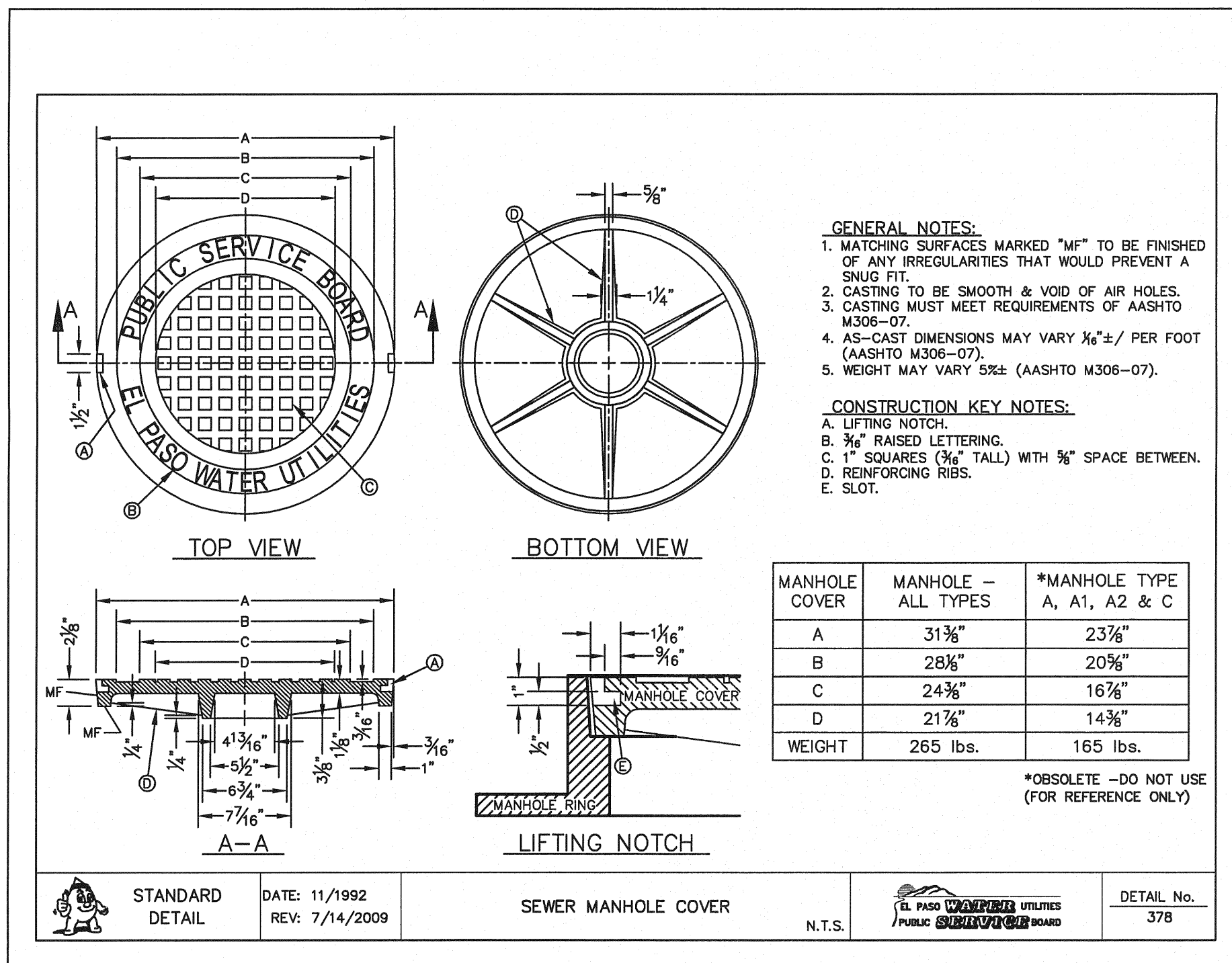
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

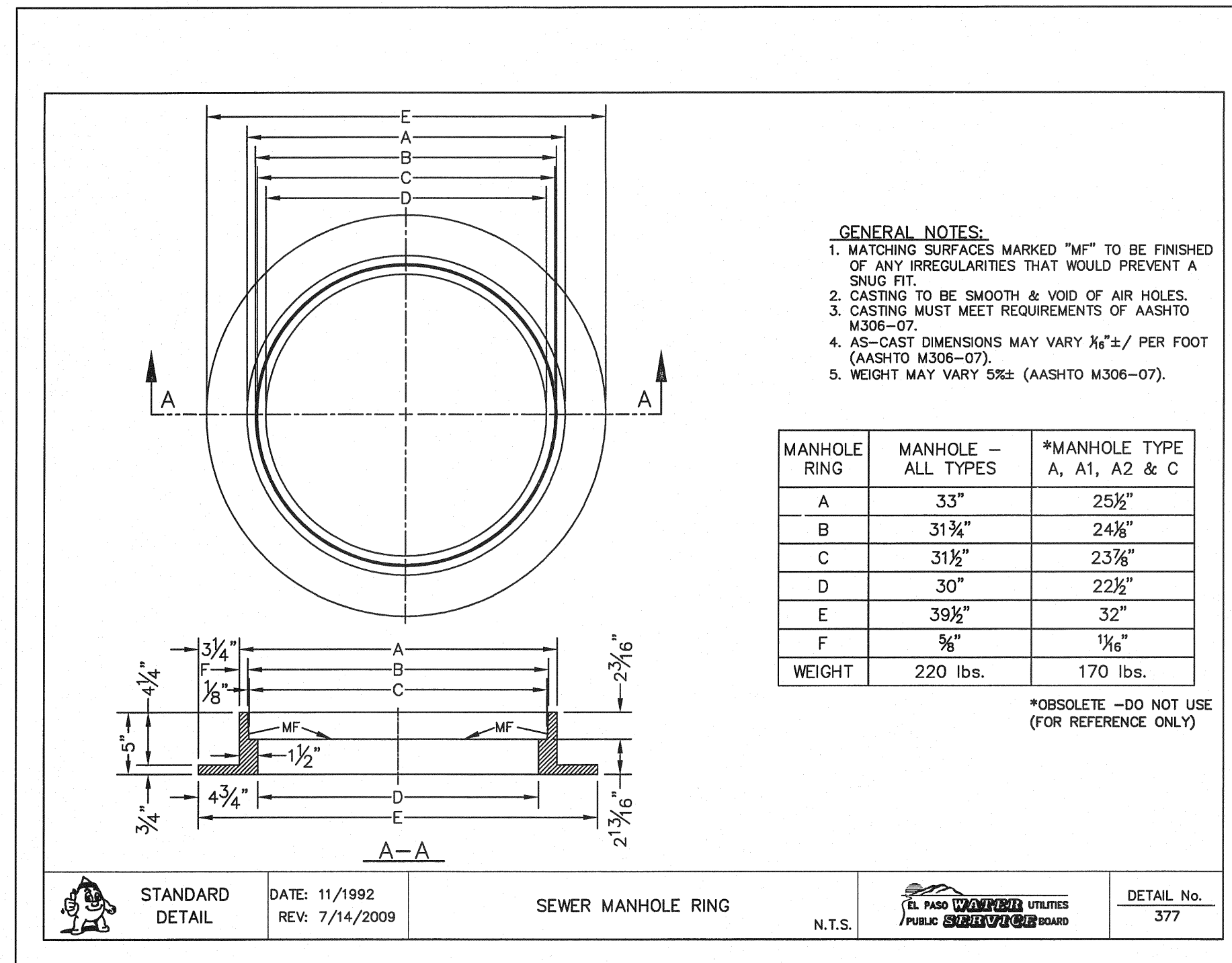
**SANITARY SEWER
PLAN & PROFILE
LINE E, F, G, & H**

SHEET NO.

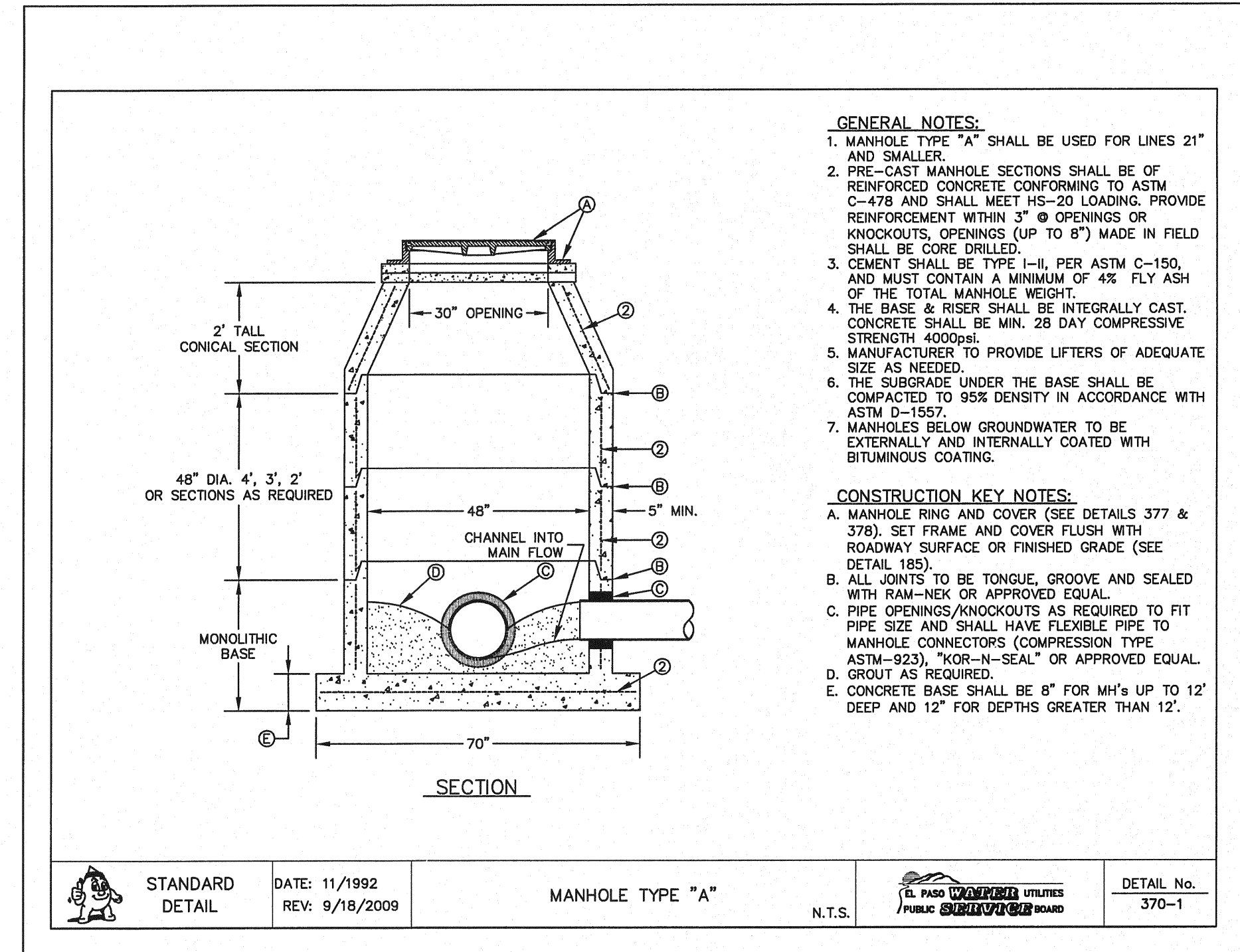
SS-4



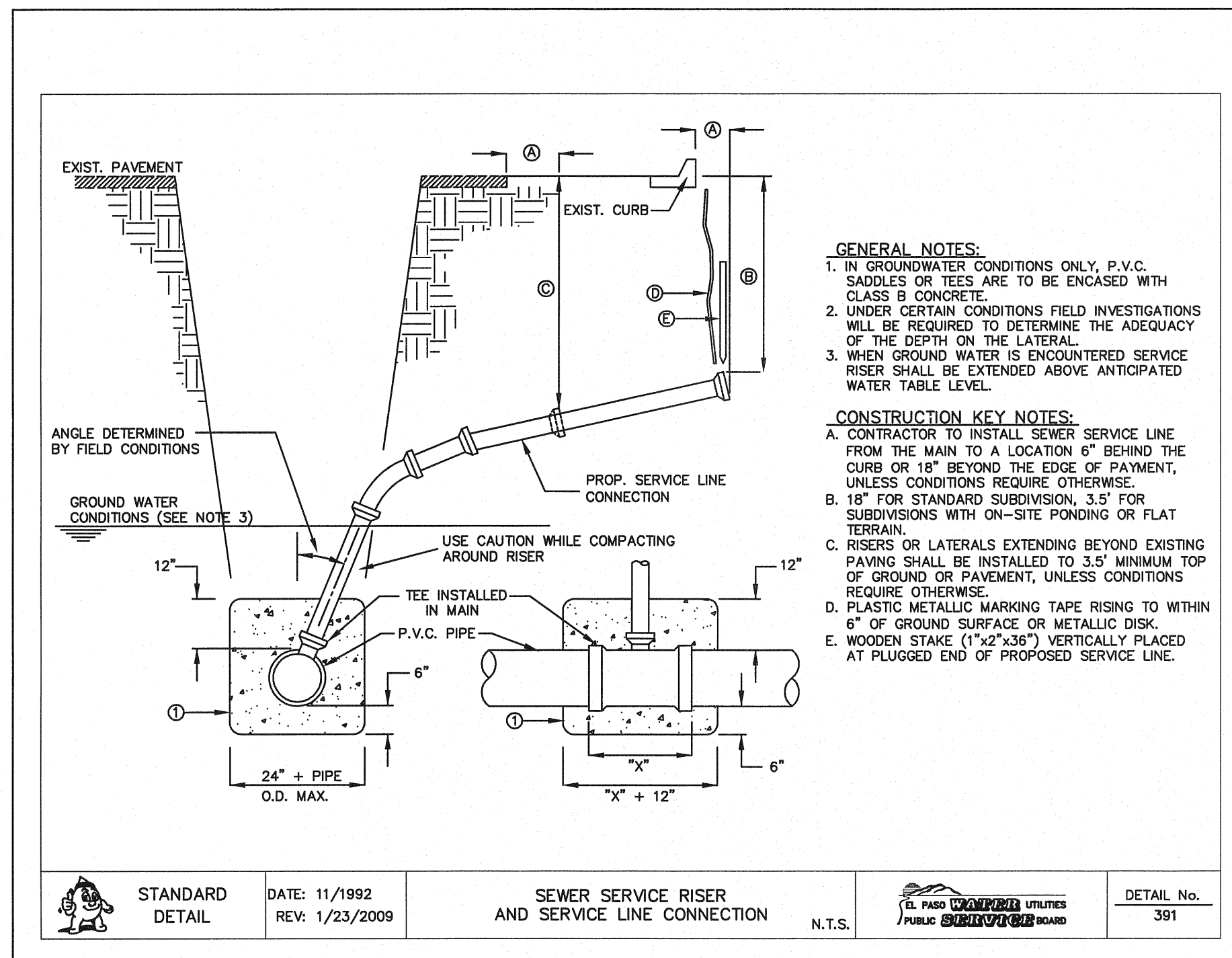
1 STANDARD MANHOLE COVER DETAIL
SS-5 SCALE: N.T.S.



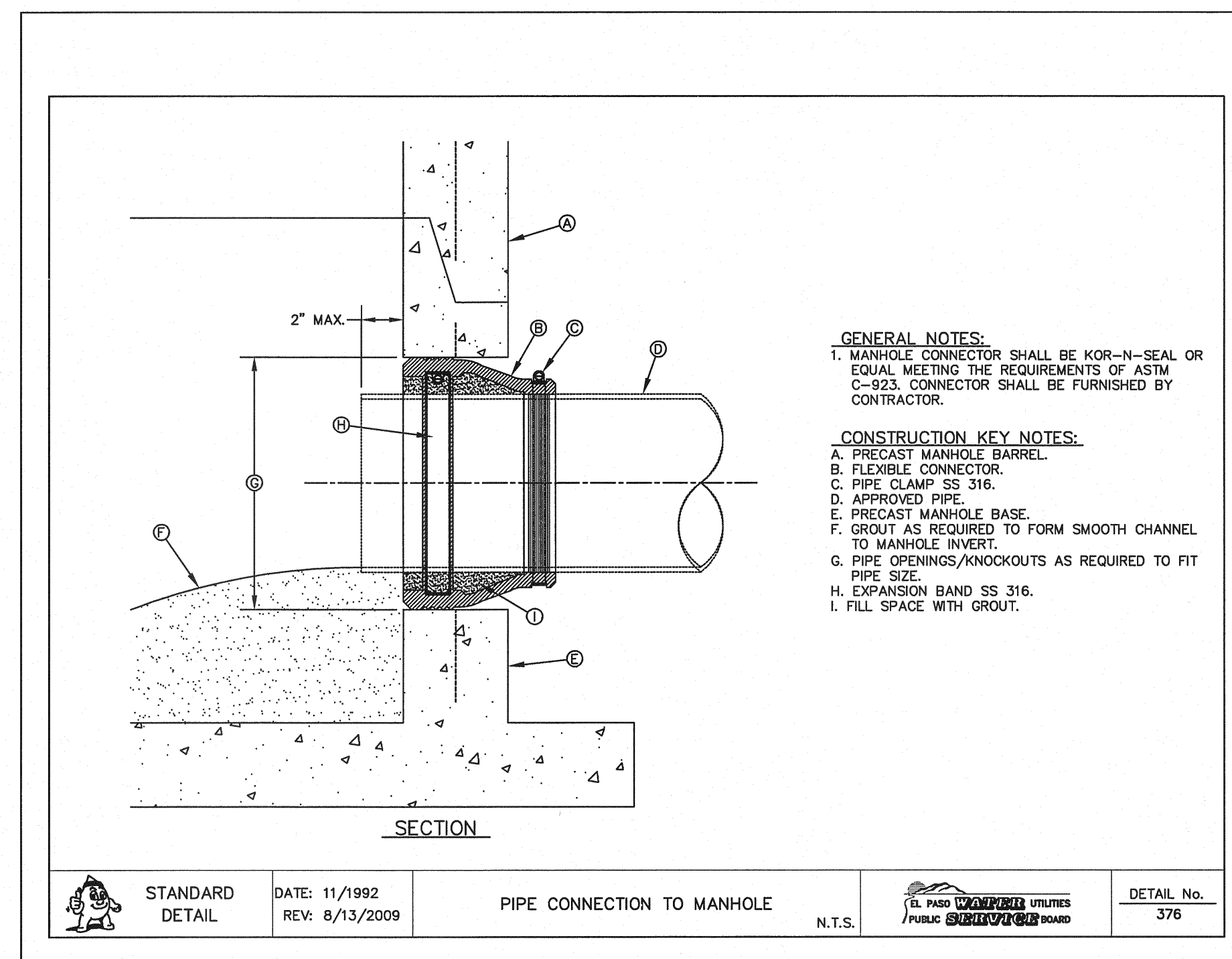
2 STANDARD MANHOLE RING DETAIL
SS-5 SCALE: N.T.S.



3 STANDARD MANHOLE TYPE "A"
SS-5 SCALE: N.T.S.



4 SEWER SERVICE RISER AND SERVICE LINE CONNECTION
SS-5 SCALE: N.T.S.



5 PIPE CONNECTION TO MANHOLE
SS-5 SCALE: N.T.S.

GENERAL NOTES:

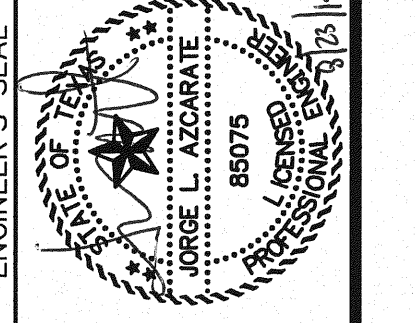
1. DEVELOPER SHALL ENSURE RESIDENTIAL SEWER SERVICE LINES HAVE BEEN EXTENDED TO THE PROPERTY LINE.
2. BUILDER SHALL ENSURE SIDEWALKS ARE NOT CONSTRUCTED UNTIL THE RESIDENTIAL SEWER SERVICE LINES HAVE BEEN EXTENDED 10 PLUS FEET INTO PRIVATE PROPERTY FROM PROPERTY LINE.

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF ALLEGRE CIRCLE AND SUTHERLAND DR (CITY DATUM). ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

CSA
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4684
4712 Woodrow Blvd, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.csa-group.net



SCALE: N/A

Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

DATE: JUNE 2010
DESIGN BY: E.Z.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.

JOB No. 2000-117-LD

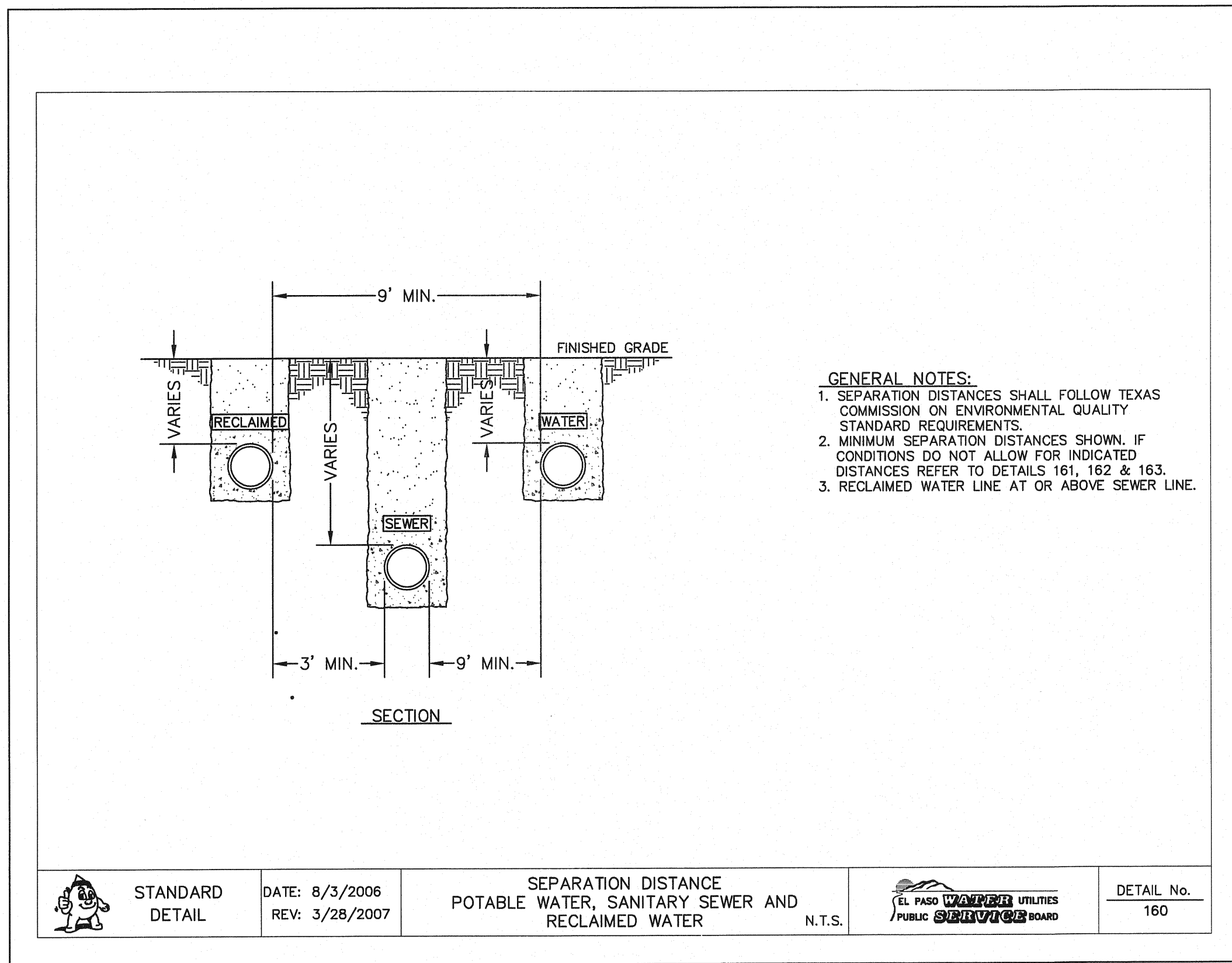
PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

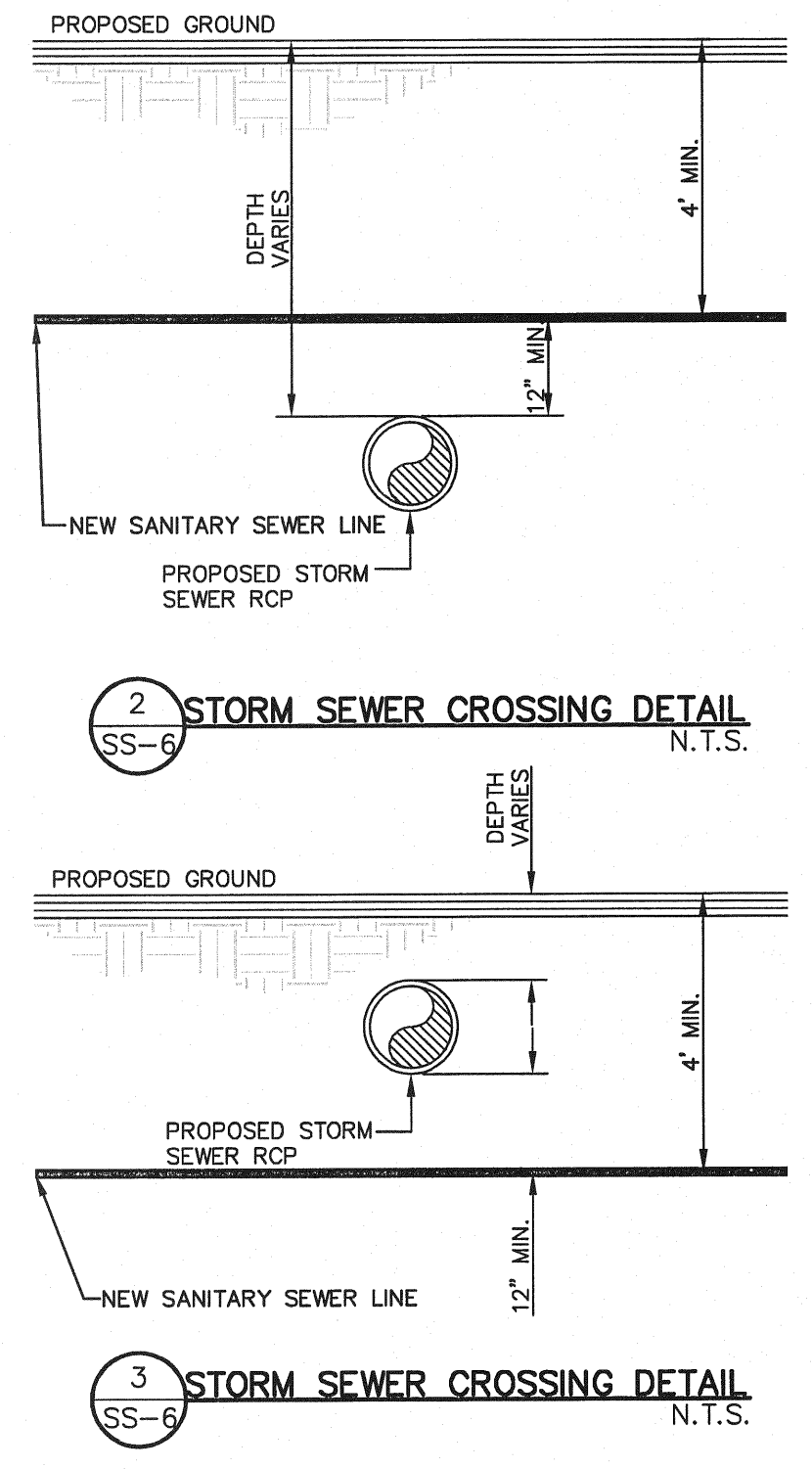
SANITARY SEWER
DETAILS
(SHEET 1 OF 3)

SHEET NO.

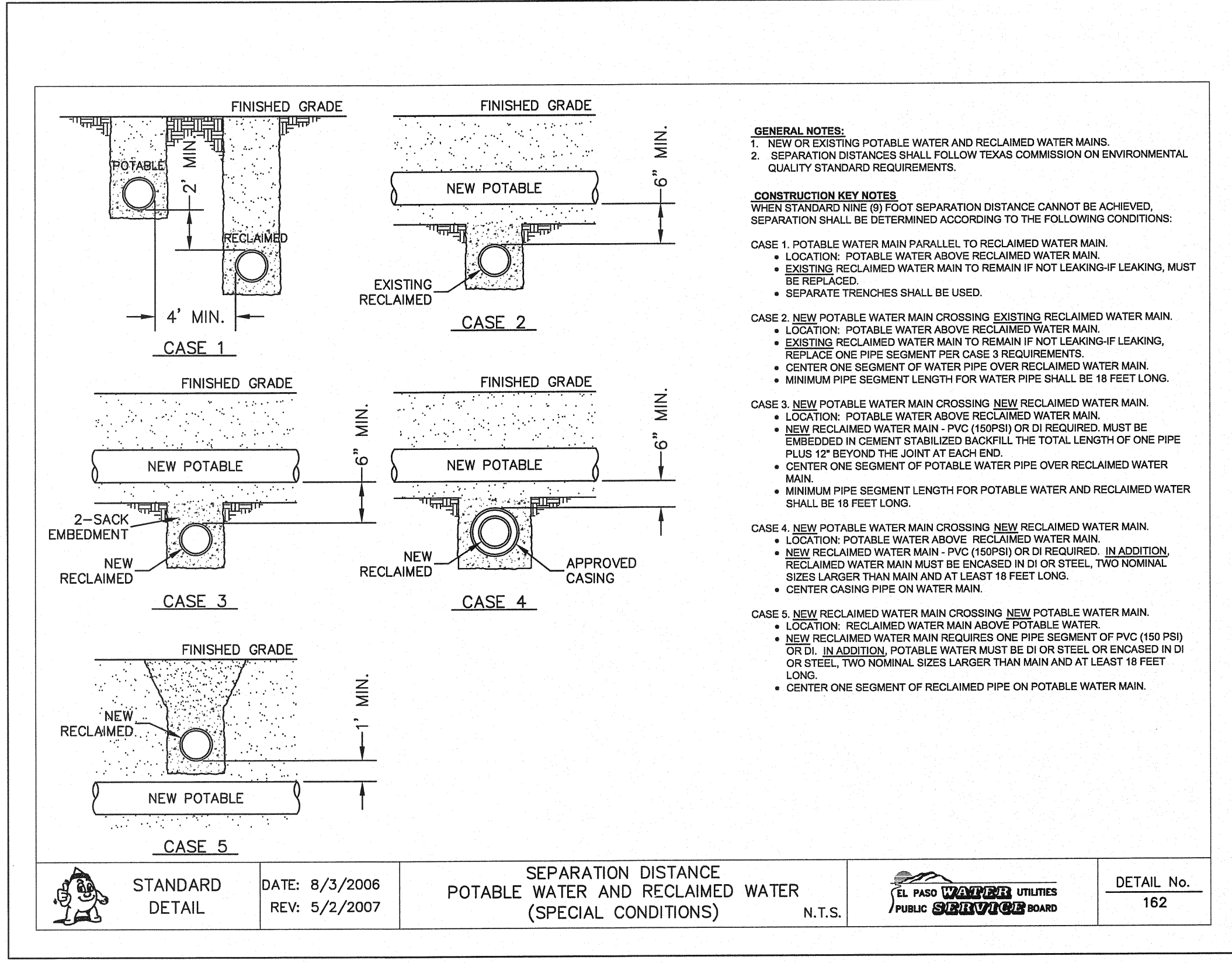
SS-5



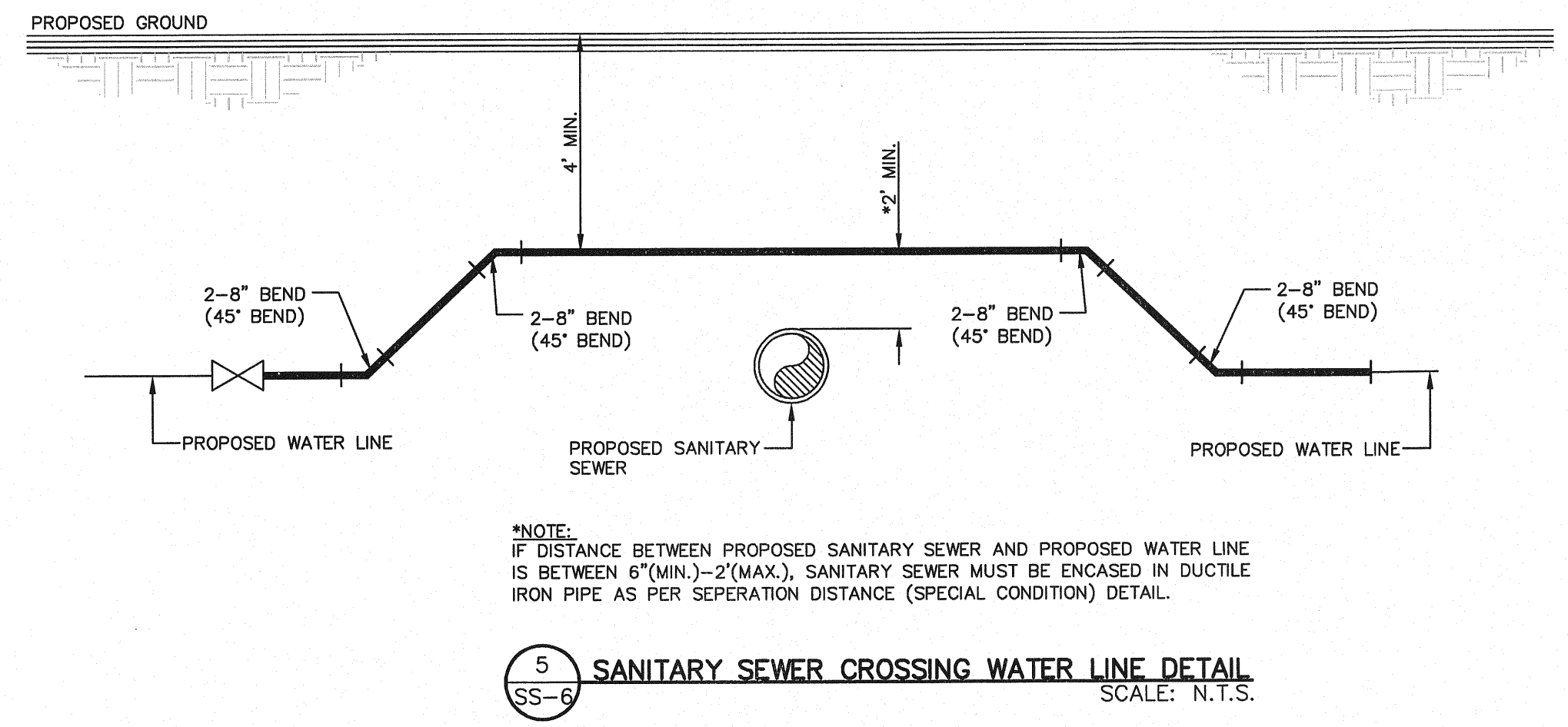
1 SEPARATION DISTANCE-NEW WATER AND NEW SEWER
 SCALE: N.T.S.



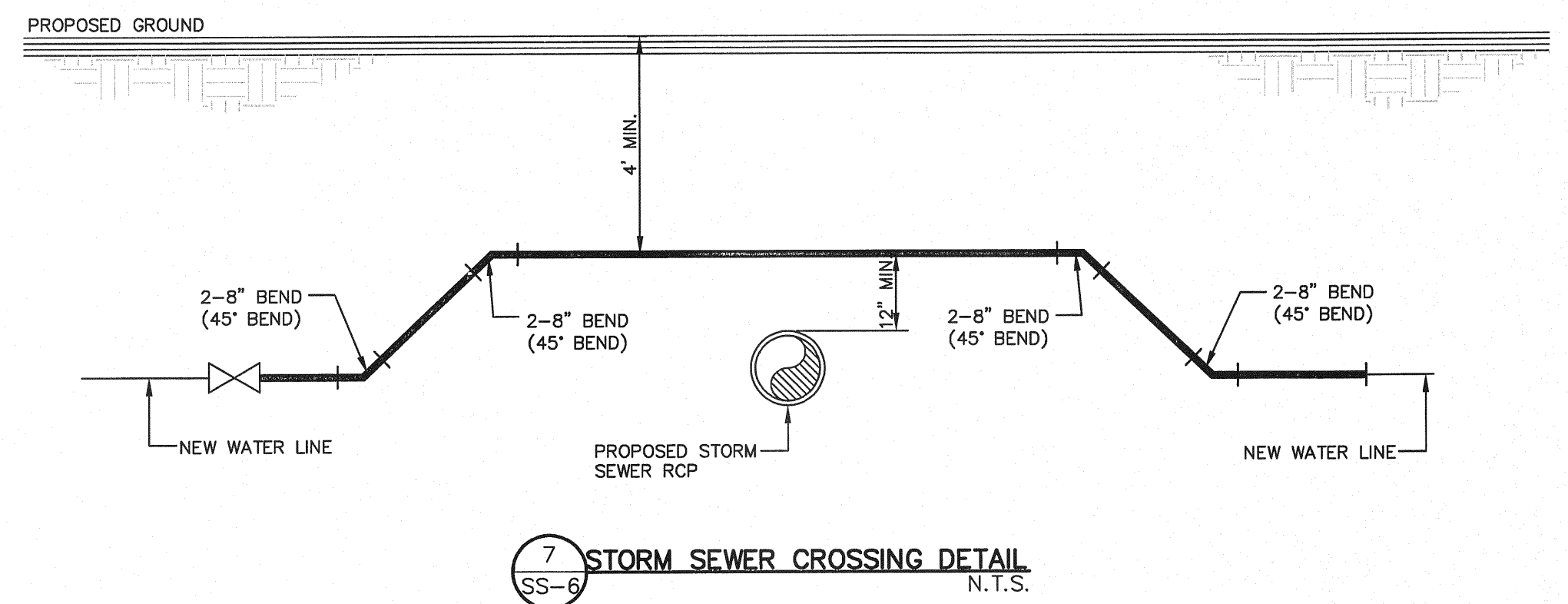
2 STORM SEWER CROSSING DETAIL
 SCALE: N.T.S.



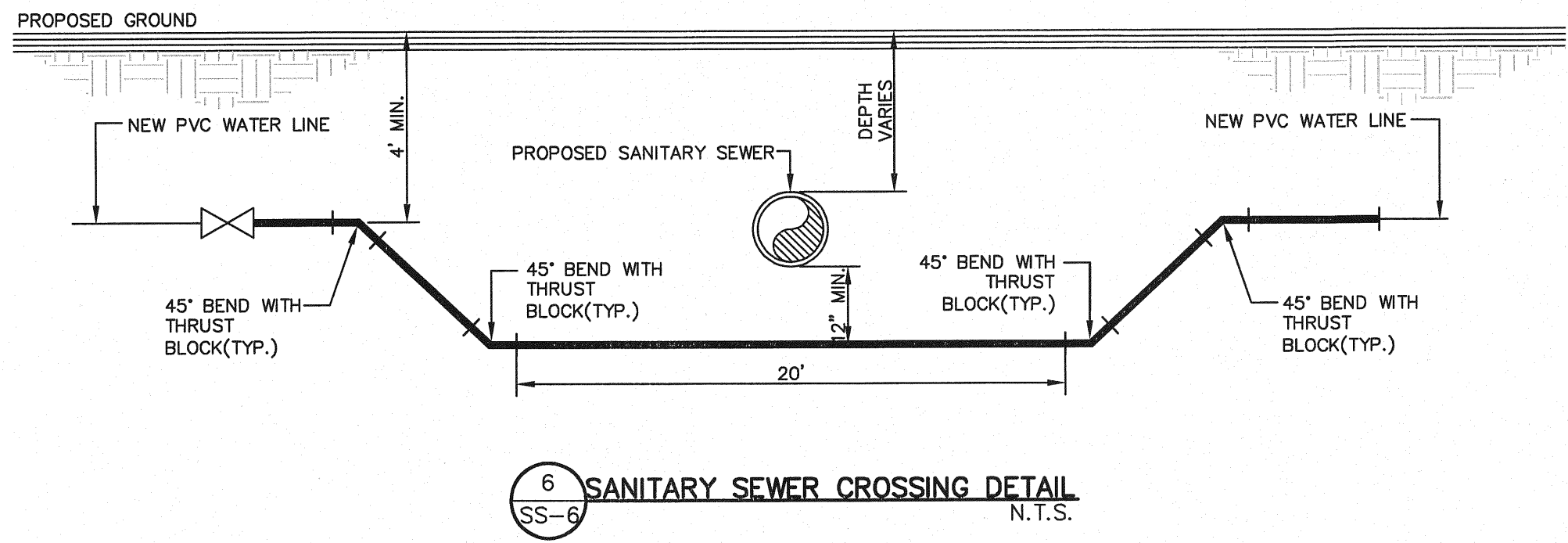
3 SEPARATION DISTANCE-EXISTING WATER AND NEW SEWER
 SCALE: N.T.S.



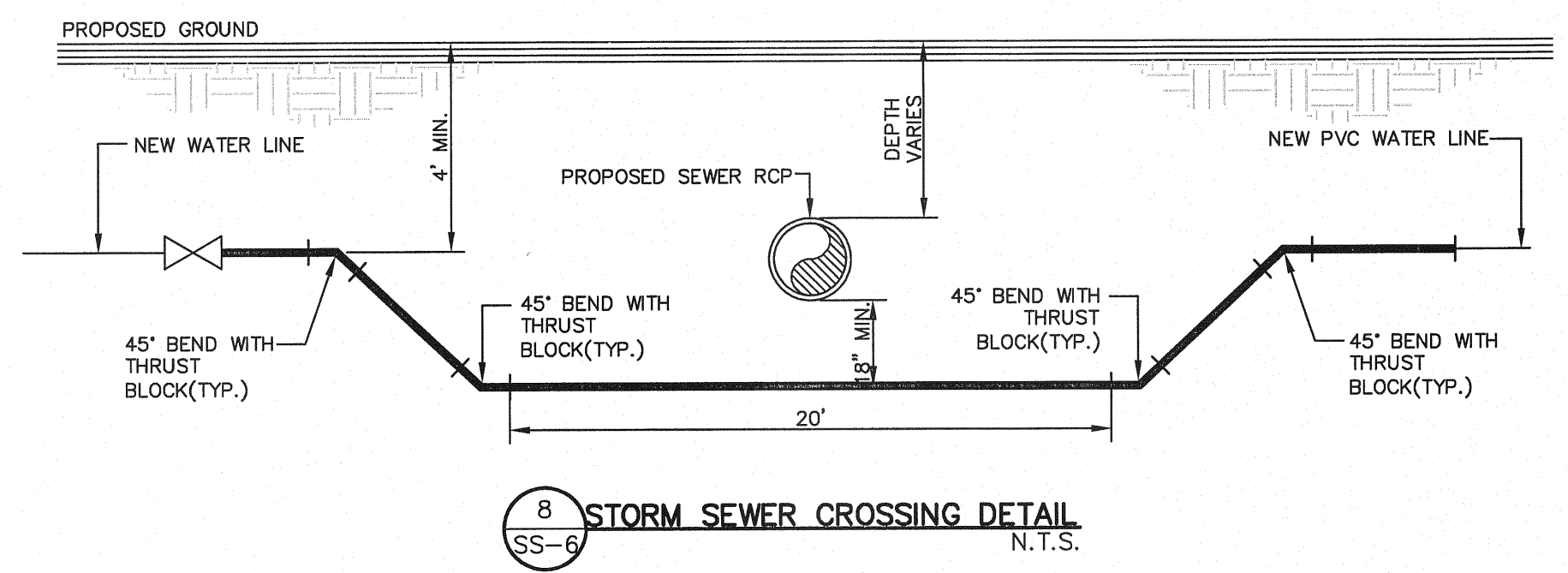
5 SANITARY SEWER CROSSING WATER LINE DETAIL
 SCALE: N.T.S.



7 STORM SEWER CROSSING DETAIL
 SCALE: N.T.S.



6 SANITARY SEWER CROSSING DETAIL
 SCALE: N.T.S.



8 STORM SEWER CROSSING DETAIL
 SCALE: N.T.S.

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASO ALEGRE CIRCLE AND PASO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM)

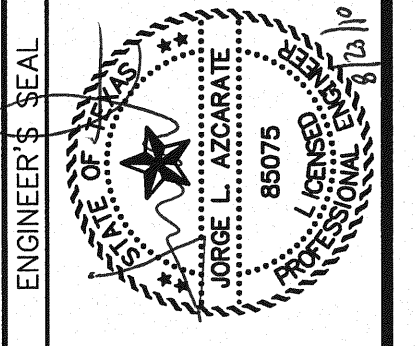
DATE	REVISIONS	BY

COLO

engineers • architects • planners

TEXAS REGISTERED ENGINEERING FIRM F-454

4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915.544.5232 Fax: 915.544.5233 www.colop.com



SCALE: N/A

Horizontal: N/A
 Vertical: N/A

Contour Interval: N/A

DATE: JUNE 2010

DESIGN BY: F.Z.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.

JOB No. 2000-117-LD

PROJECT NAME

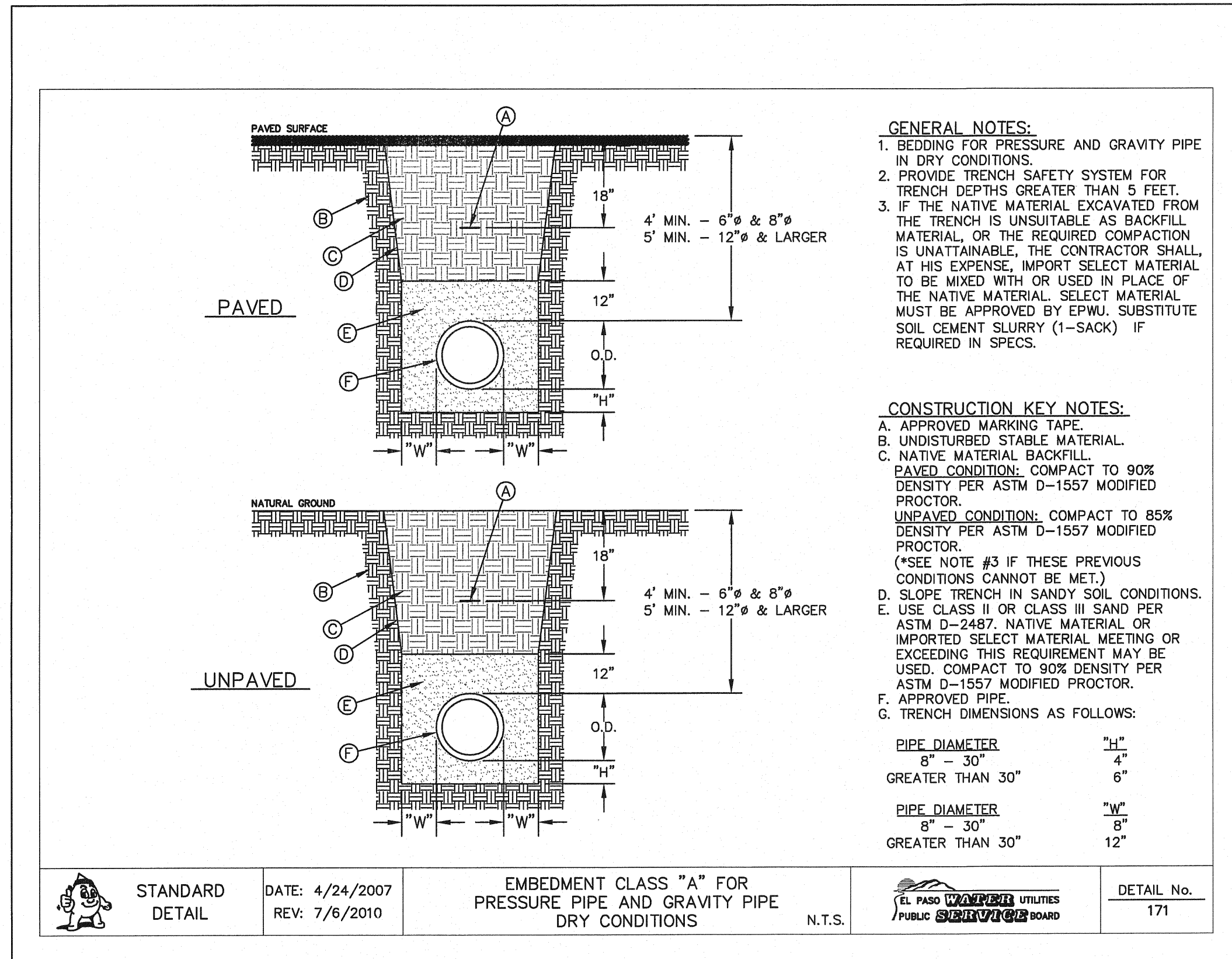
**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

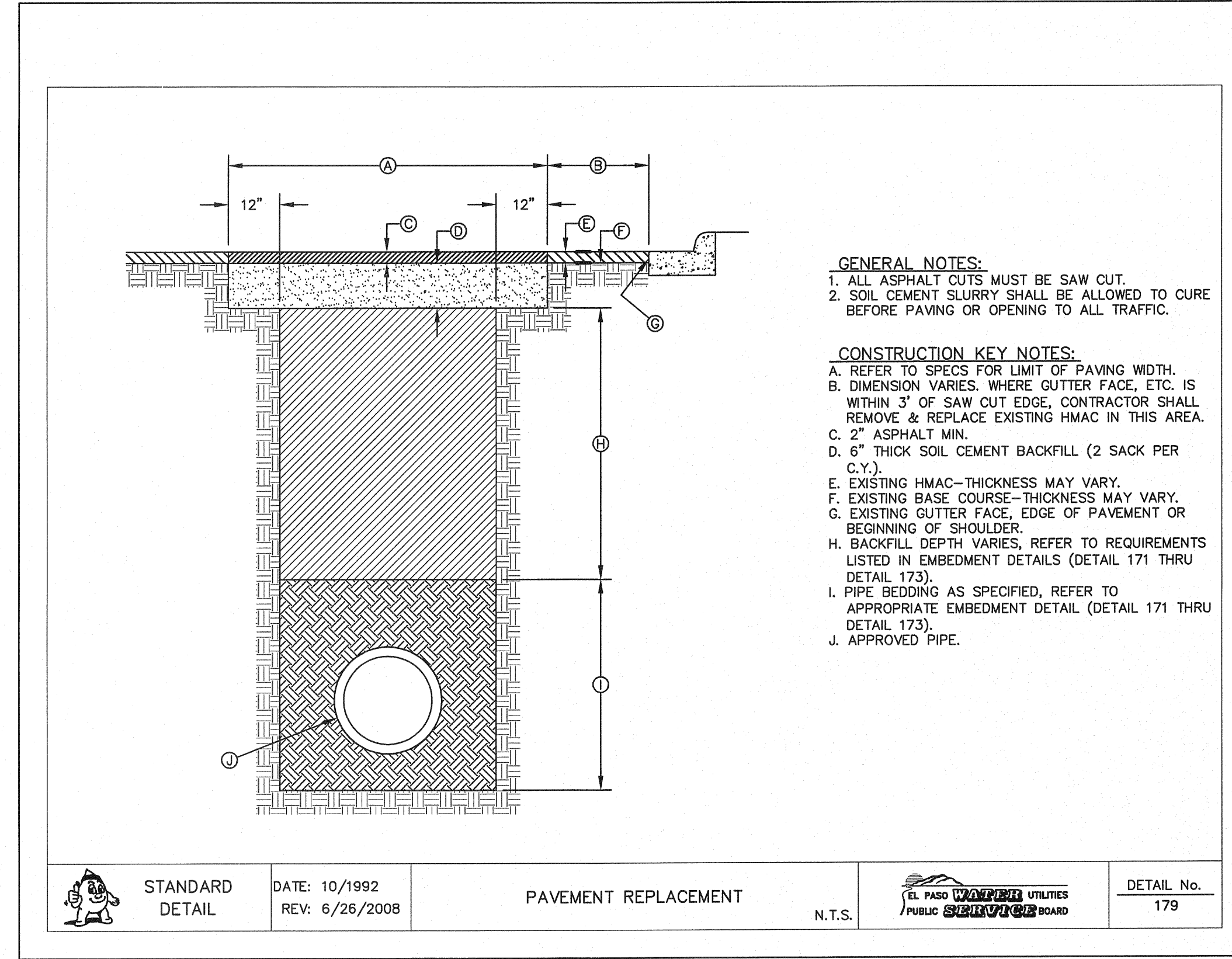
SANITARY SEWER
 DETAILS
 (SHEET 2 OF 3)

SHEET NO.

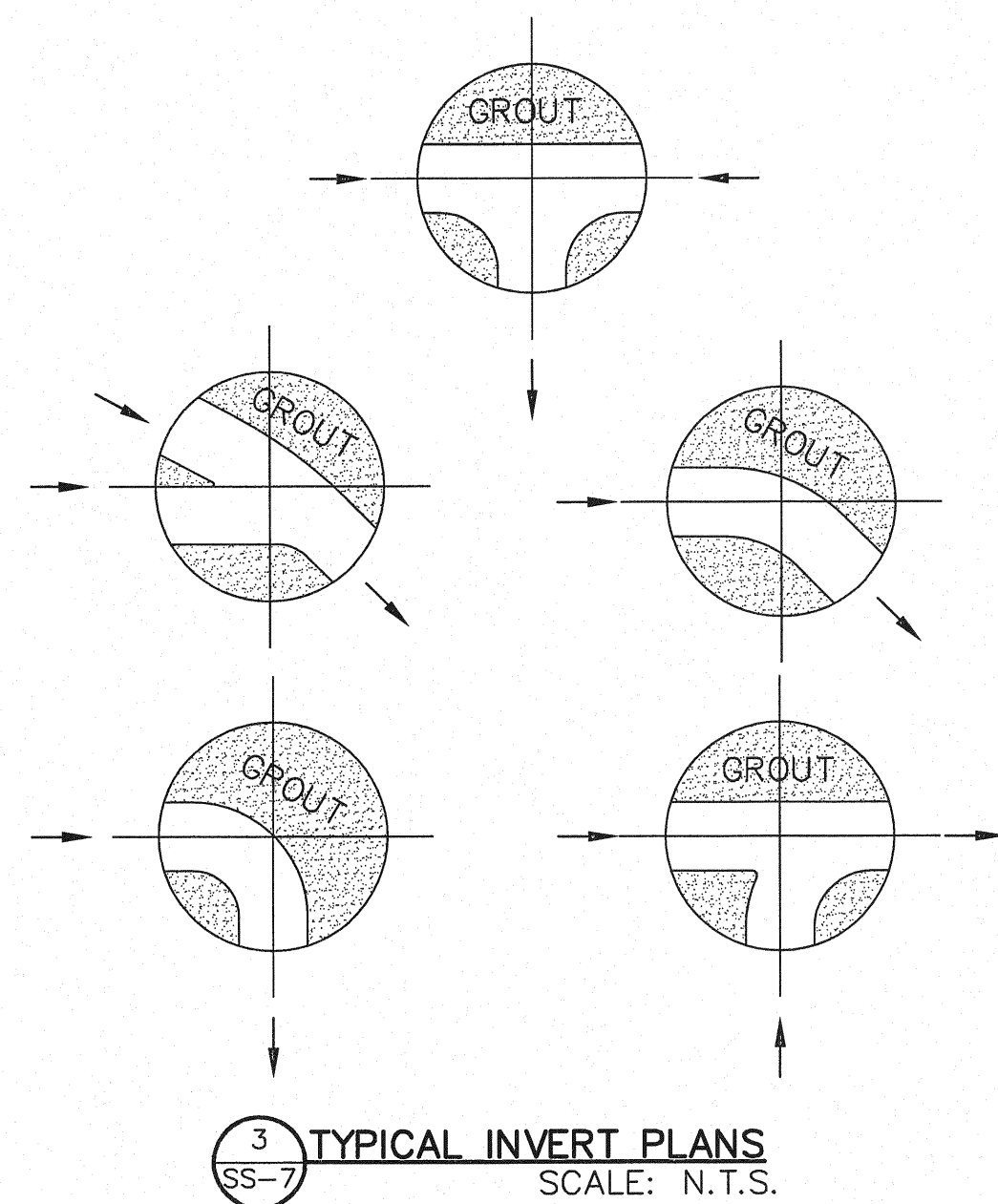
SS-6



1 BEDDING CLASS DETAILS FOR P.V.C. PRESSURE PIPE
SS-7
SCALE: N.T.S.



2 PAVEMENT REPLACEMENT DETAIL
SS-7
N.T.S.



REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASCO ALEGRE CIRCLE AND PASCO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

COA
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4684
4712 Woodrow Beach, Ste. F El Paso, TX 79924
Office: 915.544.6332 Fax: 915.544.5233 www.coaeng.com



SCALE

Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2010
DESIGN BY:	F.Z.
DRAWN BY:	F.Z.
CHKD. BY:	J.L.A.
APPVD. BY:	J.L.A.
JOB No.	2000-117-LD

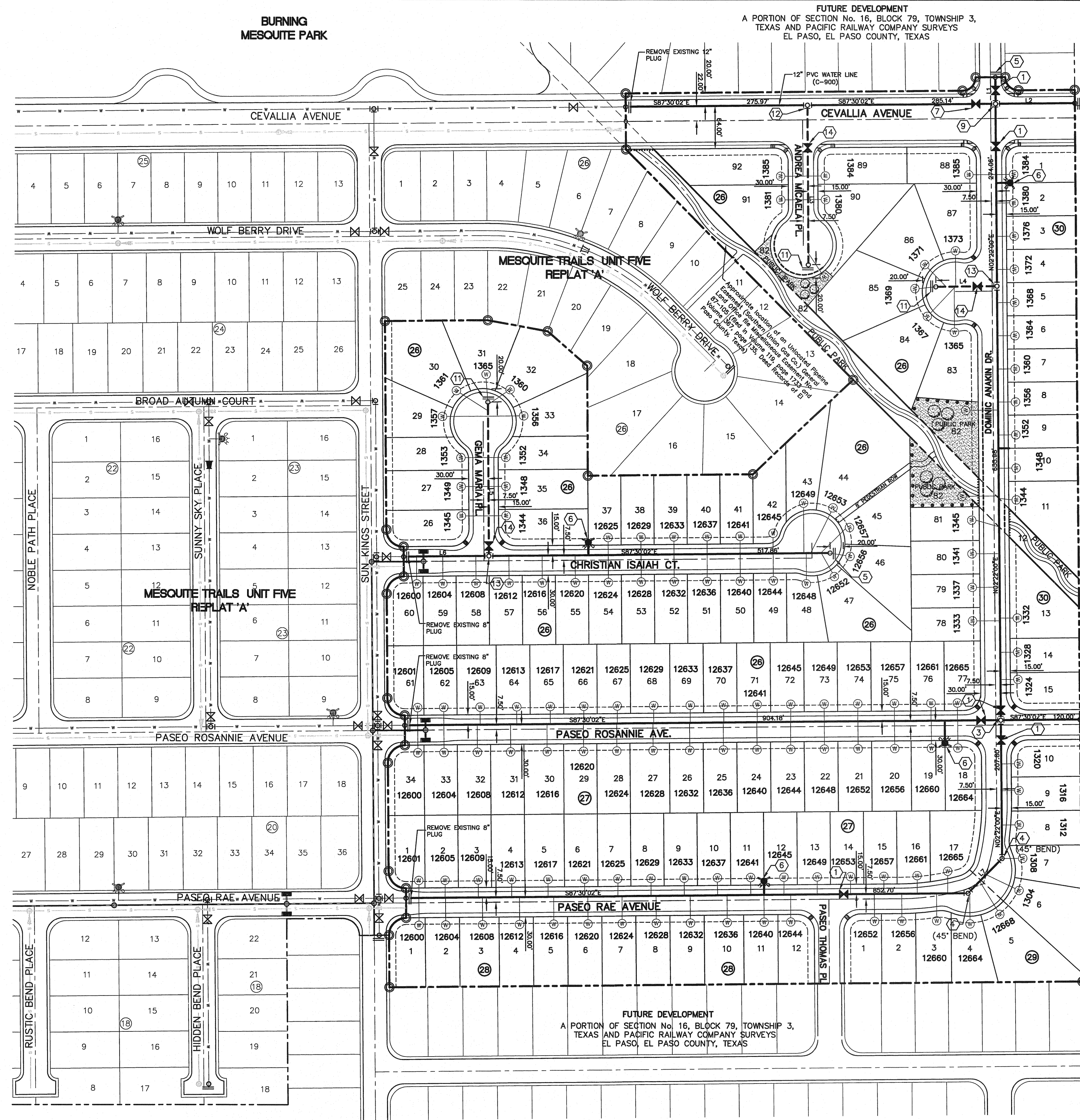
PROJECT NAME
**MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

SANITARY SEWER
DETAILS
(SHEET 3 OF 3)

SHEET NO.

SS-7



WATER KEYED NOTES

- ① 8" ϕ GATE VALVE
- ② 8" X 8" X 8" TEE
- ③ 8" X 8" X 8" CROSS
- ④ 8" BEND
- ⑤ 8" PLUG
- ⑥ FIRE HYDRANT
- ⑦ 12" GATE VALVE
- ⑧ 12" PLUG
- ⑨ 12" X 12" X 8" CROSS
- ⑩ 12" X 12" X 8" TEE
- ⑪ 6" PLUG
- ⑫ 12" X 12" X 6" TEE
- ⑬ 8" X 8" X 6" TEE
- ⑭ 6" ϕ GATE VALVE

WATER LINE TABLE

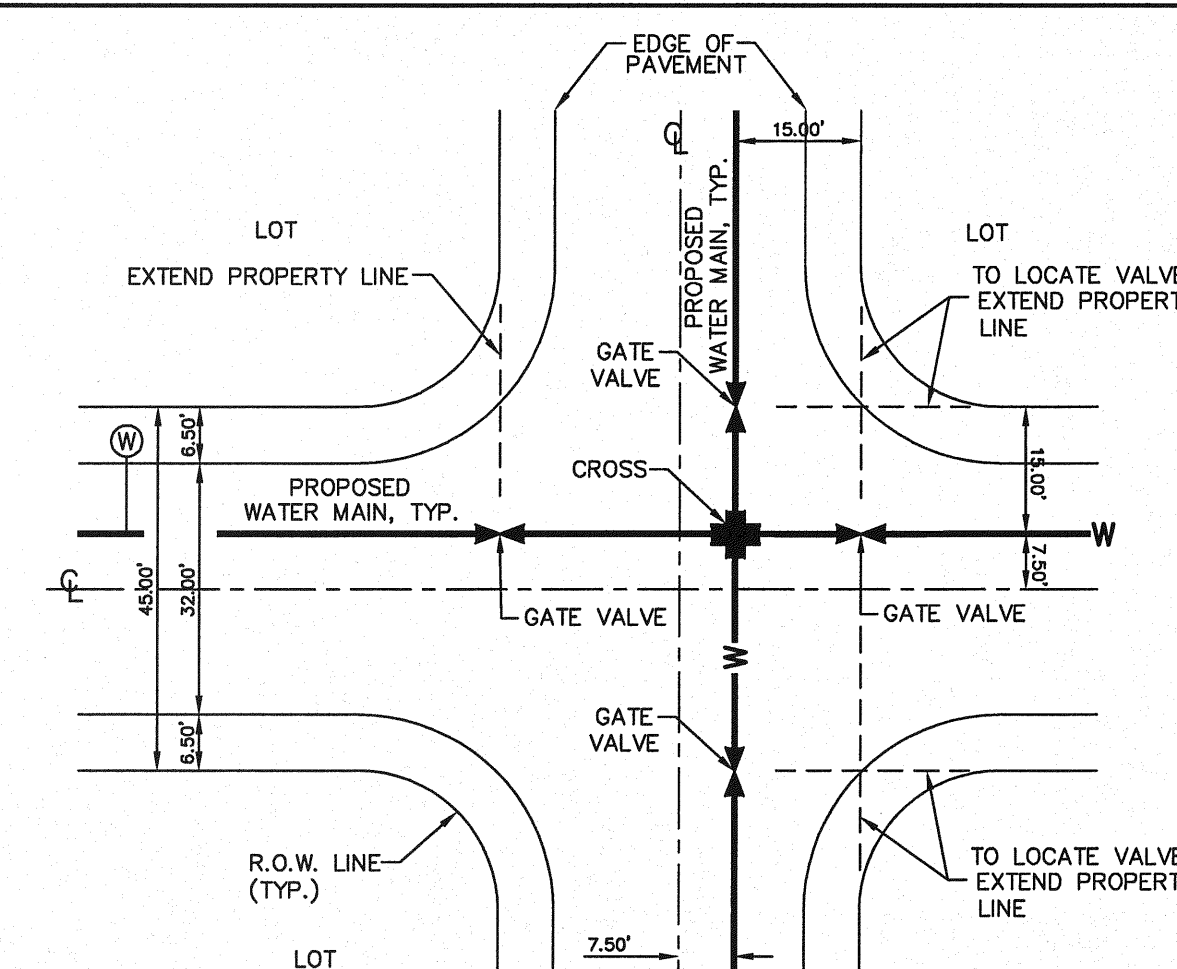
LINE	BEARING	LENGTH
L1	N02°22'00"E	39.98'
L2	S87°30'02"E	120.47'
L3	N02°29'58"E	239.59'
L4	S87°38'00"E	92.76'
L5	N02°29'58"E	232.22'
L6	S87°30'02"E	129.24'
L7	N47°22'00"E	73.65'

WATER MAP
SCALE: 1" = 100'

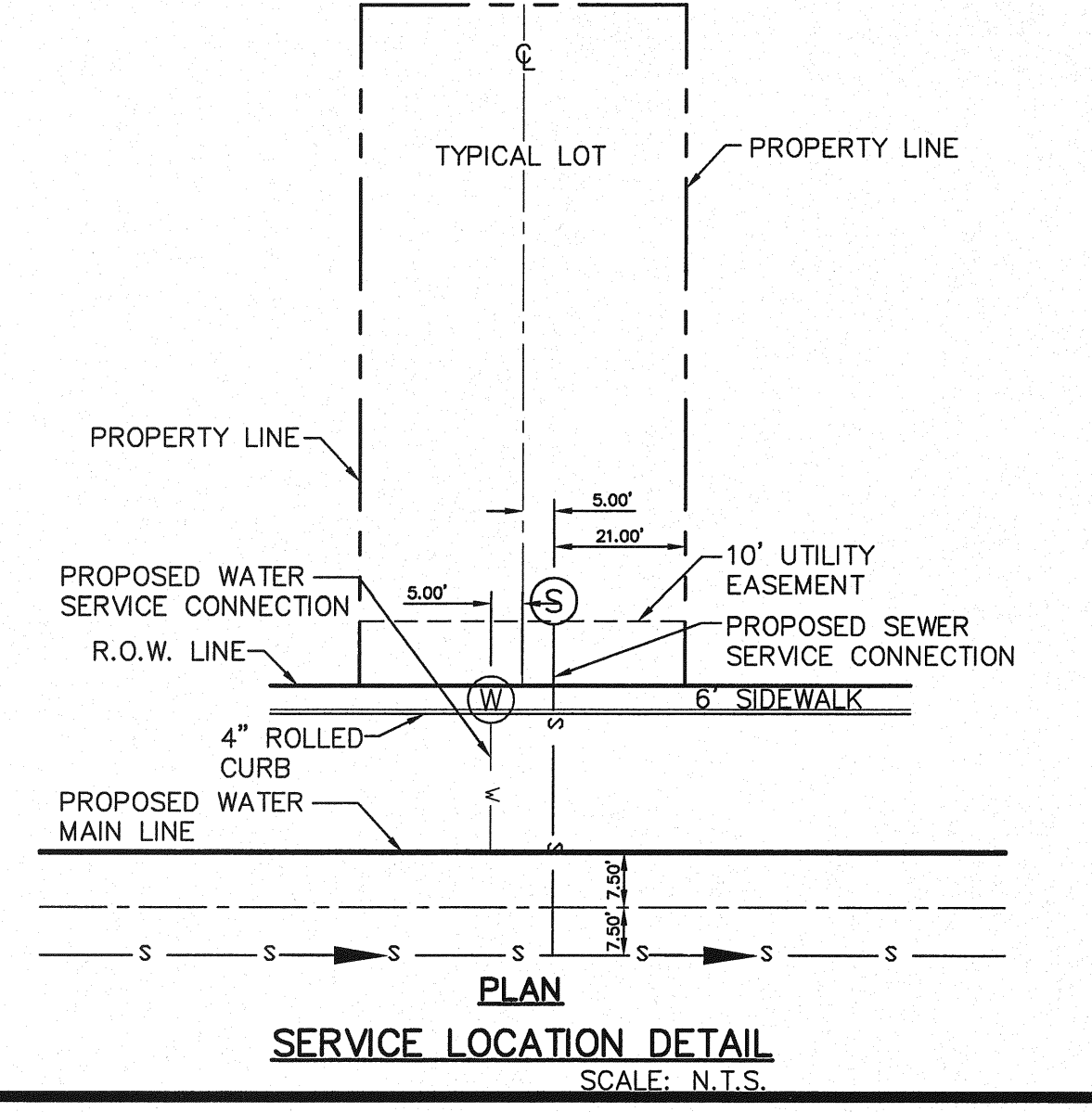
NOTES:
ALL WATER LINES SHALL COMPLY WITH DR-18, PRESSURE RATING OF 165 OR UNLESS OTHERWISE REQUIRED BY THE EPWU/PSB RULES AND REGULATIONS AND DESIGN STANDARDS.

LEGEND

SYMBOL	DESCRIPTION
---	PROPERTY LINE
---	SUBDIVISION BOUNDARY
---	STREET R.O.W. LINE
---	10' UTILITY EASEMENT
---	PROPOSED 8" C-300 P.V.C. PIPE, UNLESS OTHERWISE SPECIFIED
---	PROPOSED 6" C-300 P.V.C. PIPE, UNLESS OTHERWISE SPECIFIED
---	PROPOSED SANITARY SEWER
---	PROPOSED STORM SEWER
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	PROPOSED SERVICE CONNECTION
---	PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL
---	EXISTING FIRE HYDRANT
---	PROPOSED GATE VALVE
---	EXISTING GATE VALVE
---	PLUG
---	POINT OF TANGENCY



NOTE
SEE PLANS FOR SIZE AND LOCATION OF WATER MAIN AND LOTS TO BE SERVICED.
TYPICAL VALVE AND WATER LOCATION AT STREET INTERSECTIONS
SCALE: N.T.S.



PLAN
SERVICE CONNECTION DETAIL
SCALE: N.T.S.

GENERAL NOTES

1. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE PROPOSED WATER MAINS SHALL BE INSTALLED NO LESS THAN 10' AWAY FROM EXISTING SEWER LINE.
2. THE INTENT OF THE OWNER IS TO HAVE THE WATER MAINS INSTALLED TO SUCH A DEPTH THAT THEY WILL HAVE AT LEAST 60" FROM INVERT OF PIPELINE TO PROPOSED ELEVATIONS AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, SAGS OR HUMPS OR OTHER IRREGULARITIES IN VERTICAL ALIGNMENT. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO INSTALLING THE WATER PIPELINE SO THAT AN ACCEPTABLE PROFILE CAN BE ESTABLISHED PRIOR TO INSTALLATION OF THE PIPELINE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN IN THE PLANS, AND COORDINATE WORK WITH ALL UTILITY COMPANIES, EL PASO WATER UTILITIES AND CITY OF EL PASO PRIOR TO CONSTRUCTION. ALL EXISTING UTILITY DEPTHS ARE UNKNOWN. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ACQUIRING FIELD DEPTHS OF ALL UTILITIES WITHIN THE PROJECT AREAS.
4. TRENCH SAFETY REQUIREMENTS SHALL BE AS REQUIRED BY OSHA.
5. AS-BUILT STATIONING, OFFSET FROM R.O.W. AND INVERT ELEVATIONS SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR ON A CLEAN SET OF PLANS FOR EACH VALVE, FIRE HYDRANT, ELBOW, SERVICE CONNECTION AND/OR STUB-OUT, WITH RESPECT TO THE APPROPRIATE PROJECT CONTROL POINT.
6. THE EL PASO WATER UTILITIES AND CITY OF EL PASO MUST BE NOTIFIED 48 HOURS PRIOR TO COMMENCING ANY WORK IN AREAS WITHIN THEIR JURISDICTION.
7. EXISTING STREETS, DRIVEWAYS, PARKING LOTS, MAILBOXES, SIGNS, CHAIN-LINK FENCES, AND ALL OTHER MISCELLANEOUS STRUCTURES DAMAGE OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION AT NO COST TO OWNER.
8. TRAFFIC CONTROL SHALL BE IN PLACE PRIOR TO INITIATING WORK.
9. ALL TIE-INS SHALL BE CLOSELY COORDINATED WITH THE EL PASO WATER UTILITIES AT LEAST 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
10. CONTRACTOR SHALL PROVIDE THE REQUIRED COUPLINGS, ELBOWS AND NECESSARY PIPING APPURTENANCES FOR A COMPLETE AND OPERATIONAL WATER SYSTEM.
11. ALL NEW VALVES SHALL BE ALIGNED PERPENDICULAR TO PROPERTY LINES.

GENERAL UTILITIES:
TEXAS EXCAVATION SAFETY SERVICE
11804 GREENVILLE AVENUE,
DALLAS, TX 75243
(800) 344-8377

ENGINEER:
CEA GROUP
CASTNER CENTER @ TRANSMOUNTAIN
4712 WOODROW BEAN, STE. F
EL PASO, TX 79924
(915) 544-5232
MR. JORGE L. AZCARATE, P.E.

FIBER OPTICS:
U.S. SPRINT
151 N. BOONE ST.
EL PASO, TX 79905
(915) 534-7910
MR. RICK DERAGSCH

FIBER OPTICS:
MCI TELECOMMUNICATIONS CORP.
4045 DONIPHAN PARK CIRCLE
EL PASO, TX 79922
(915) 542-2770 EXT. 201
MR. DANIEL HERNANDEZ

WATER & SEWER:
EL PASO WATER UTILITIES
1154 HAWKINS BOULEVARD
EL PASO, TX 79861
(915) 594-5530
MR. FELIPE LOPEZ, JR., P.E.

ELECTRIC:
EL PASO ELECTRIC CO.
501 W. SAN ANTONIO ST.
EL PASO, TX 79902
(915) 543-2076
MR. FRANK VIGEL (DISTRIBUTION)

EL PASO STREETS
CITY OF EL PASO
STREETS DEPARTMENT
7969 SAN PAULLO DRIVE
EL PASO, TX 79907
(915) 621-6750
MR. DARYL W. COLE

CABLE TELEVISION:
TIME WARNER COMMUNICATIONS
7010 AIRPORT ROAD
EL PASO, TX 79906
(915) 772-1123
MR. JOHN MARES

TELEPHONE:
SBC
11200 PELLICANO
EL PASO, TX 79935
(915) 595-5151
MR. TIM BROWN

FIBER OPTICS:
AT&T
P.O. BOX 1650
EL PASO, TX 79949
(800) 852-3786
MS. DARLENE NORIS
(915) 543-2076

RESIDENTIAL GAS LINES:
TEXAS GAS SERVICE
4700 POLLARD ST.
EL PASO, TX 79930
(915) 680-7218
MR. ALEX LIMON

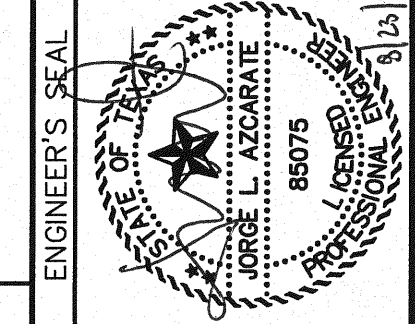
WARNING I BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

CEA GROUP
engineers • architects • planners
TEXAS REGISTERED ENGINEERING FIRM F-4684
4712 WOODROW BEAN, STE. F, EL PASO, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.net



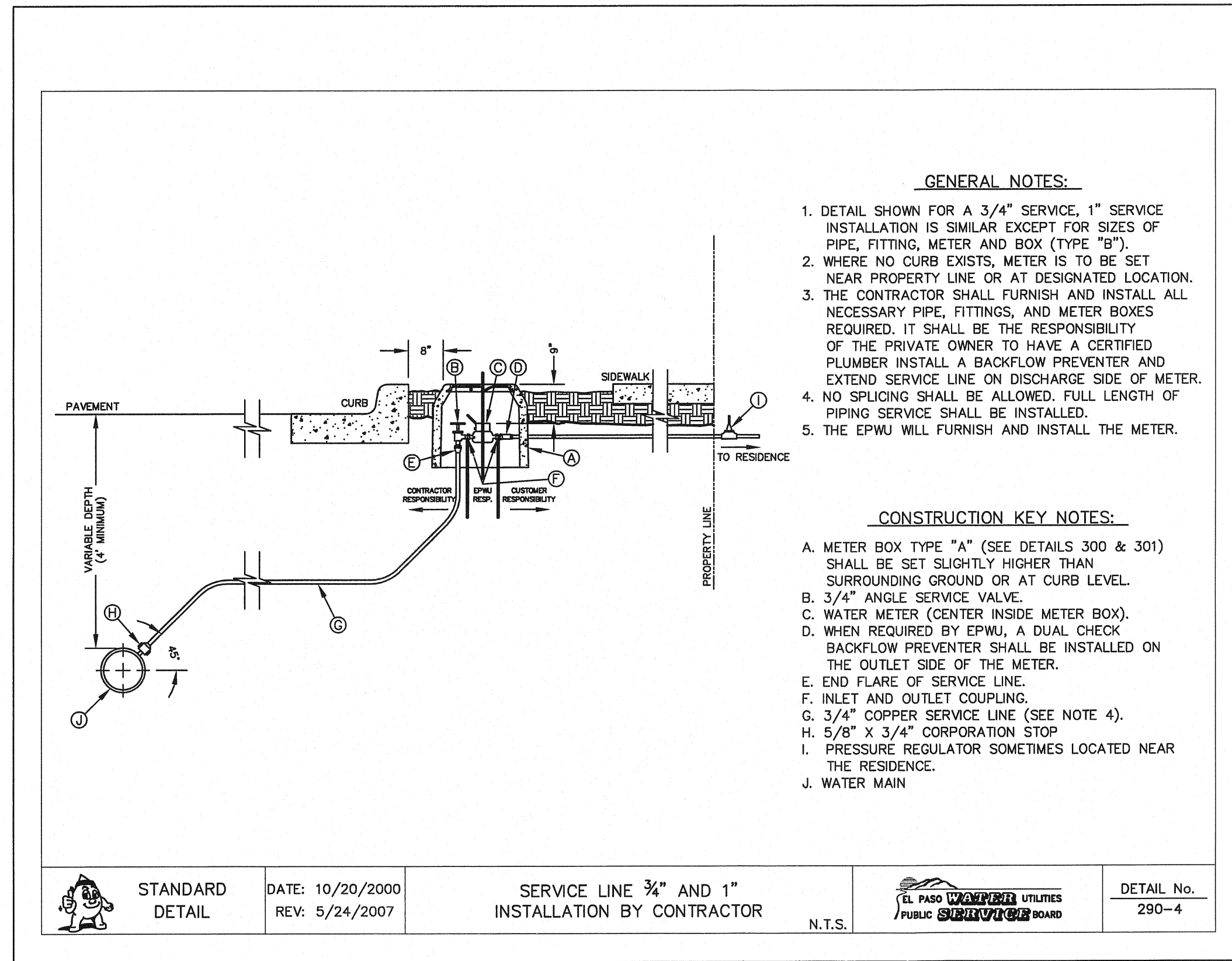
ENGINEER'S SEAL
SCALE: 1" = 100'
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2010
DESIGN BY: F.Z.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: J.L.A.
JOB No. 2000-117-LD

PROJECT NAME
MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS

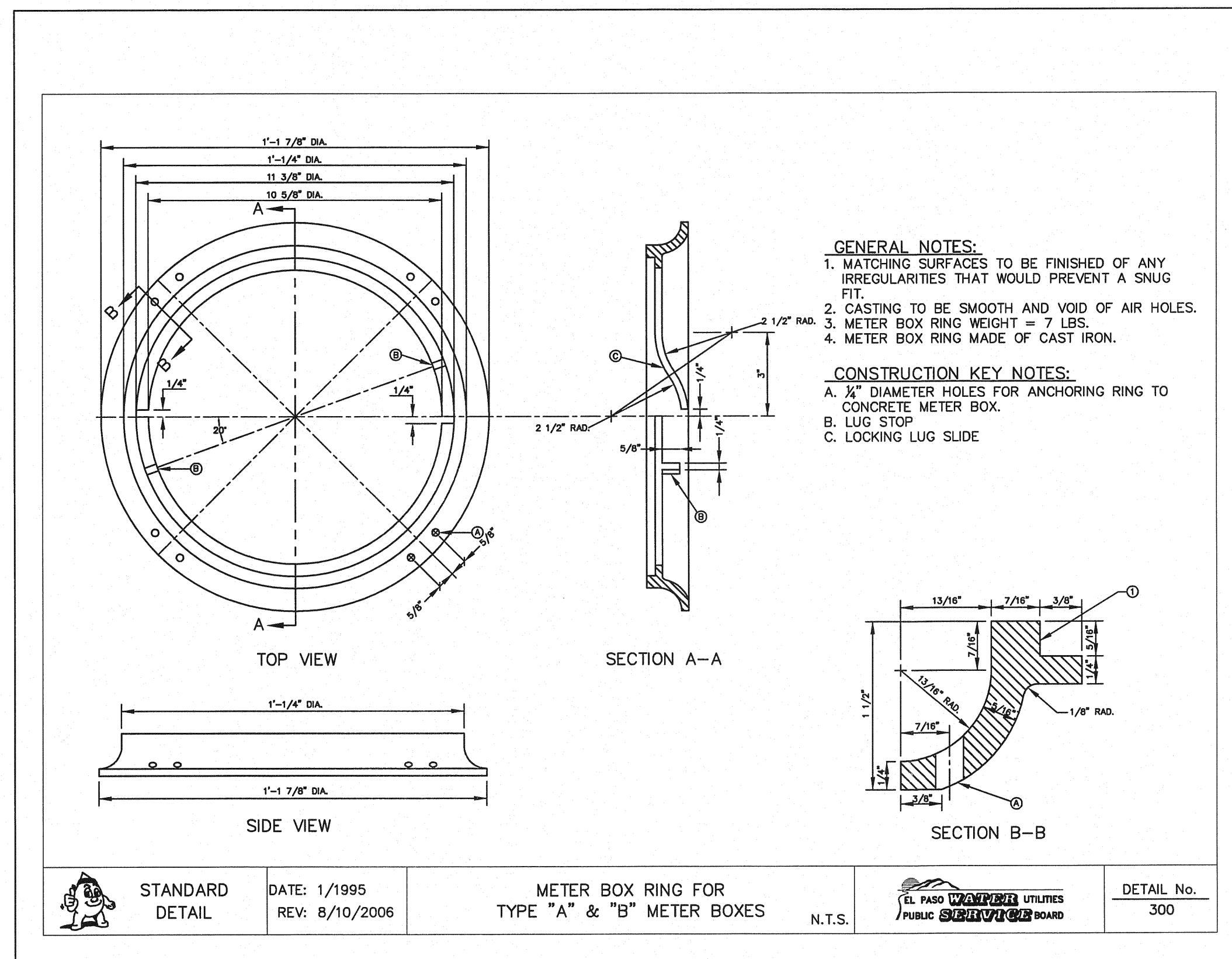
SHEET TITLE
WATER INDEX

SHEET NO.

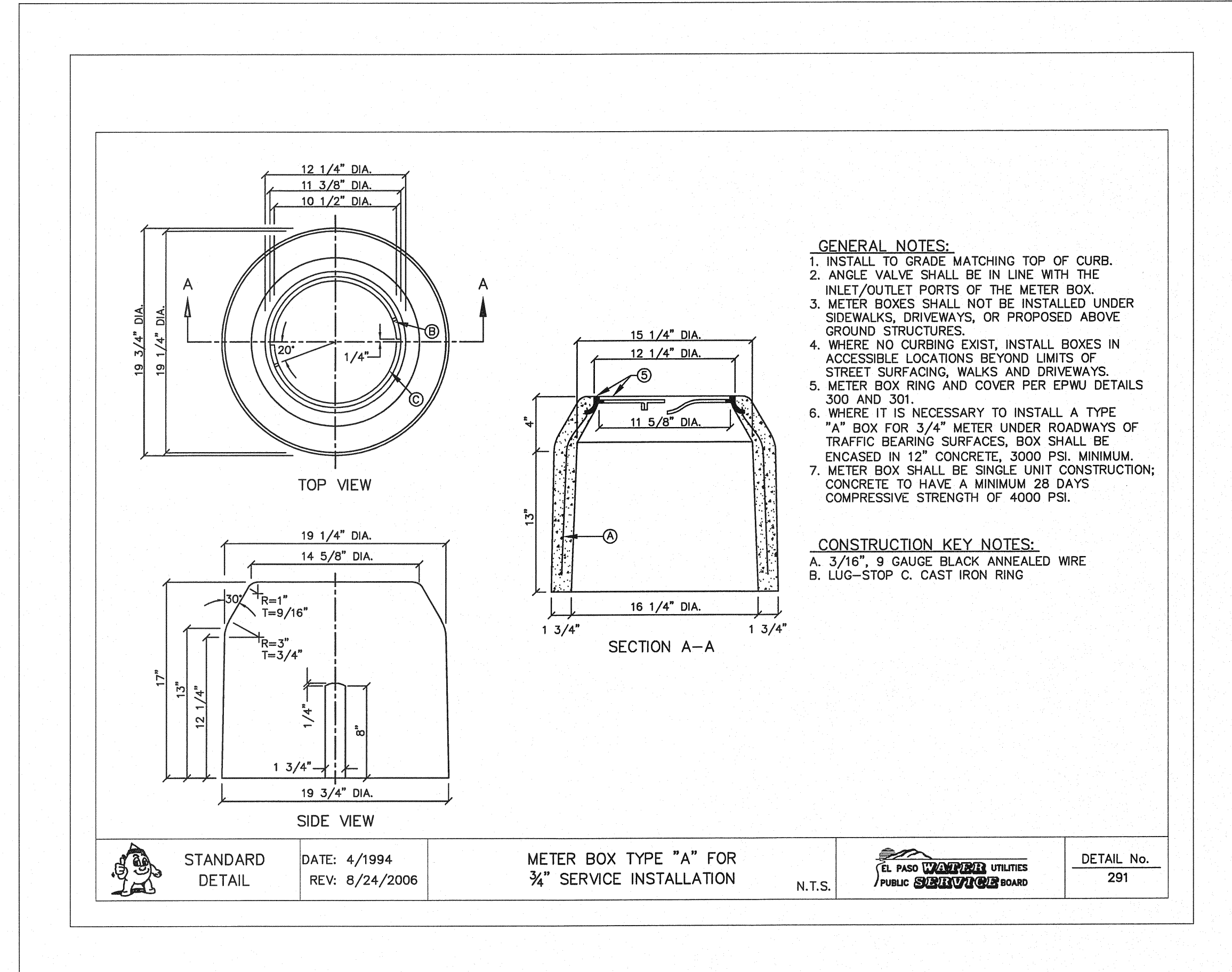
W-1



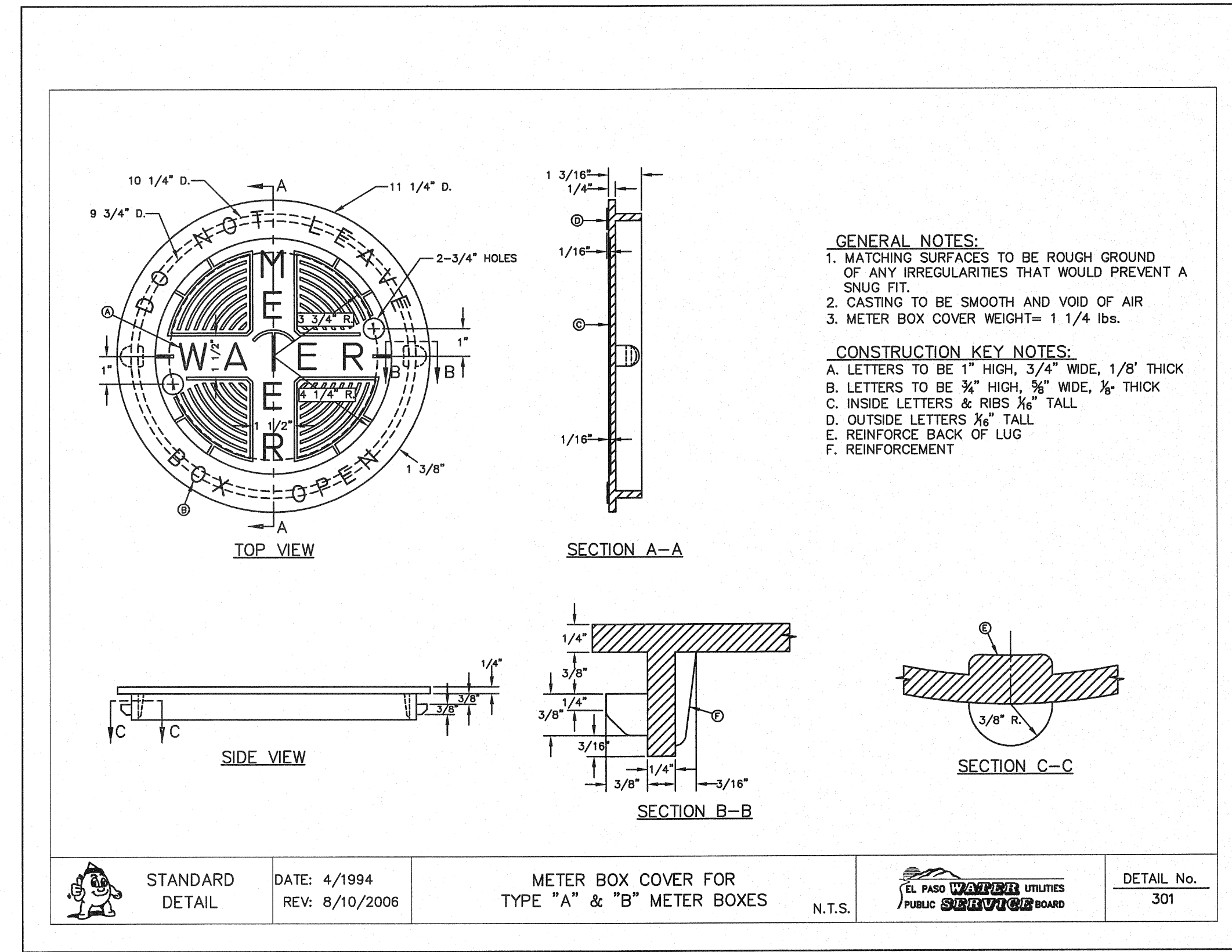
1 TYPICAL SERVICE LINE INSTALLATION
W-2 N.T.S.



4 METER BOX RING DETAIL
W-2 N.T.S.



2 METER BOX DETAIL
W-2 N.T.S.

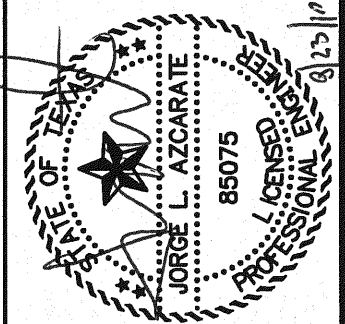


3 METER BOX COVER DETAIL
W-2 N.T.S.

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY



SCALE: N/A

Horizontal: N/A
Vertical: N/A

Contour Interval: N/A

DATE: JUNE 2010

DESIGN BY: F.Z.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.

JOB NO. 2000-117-LD

PROJECT NAME

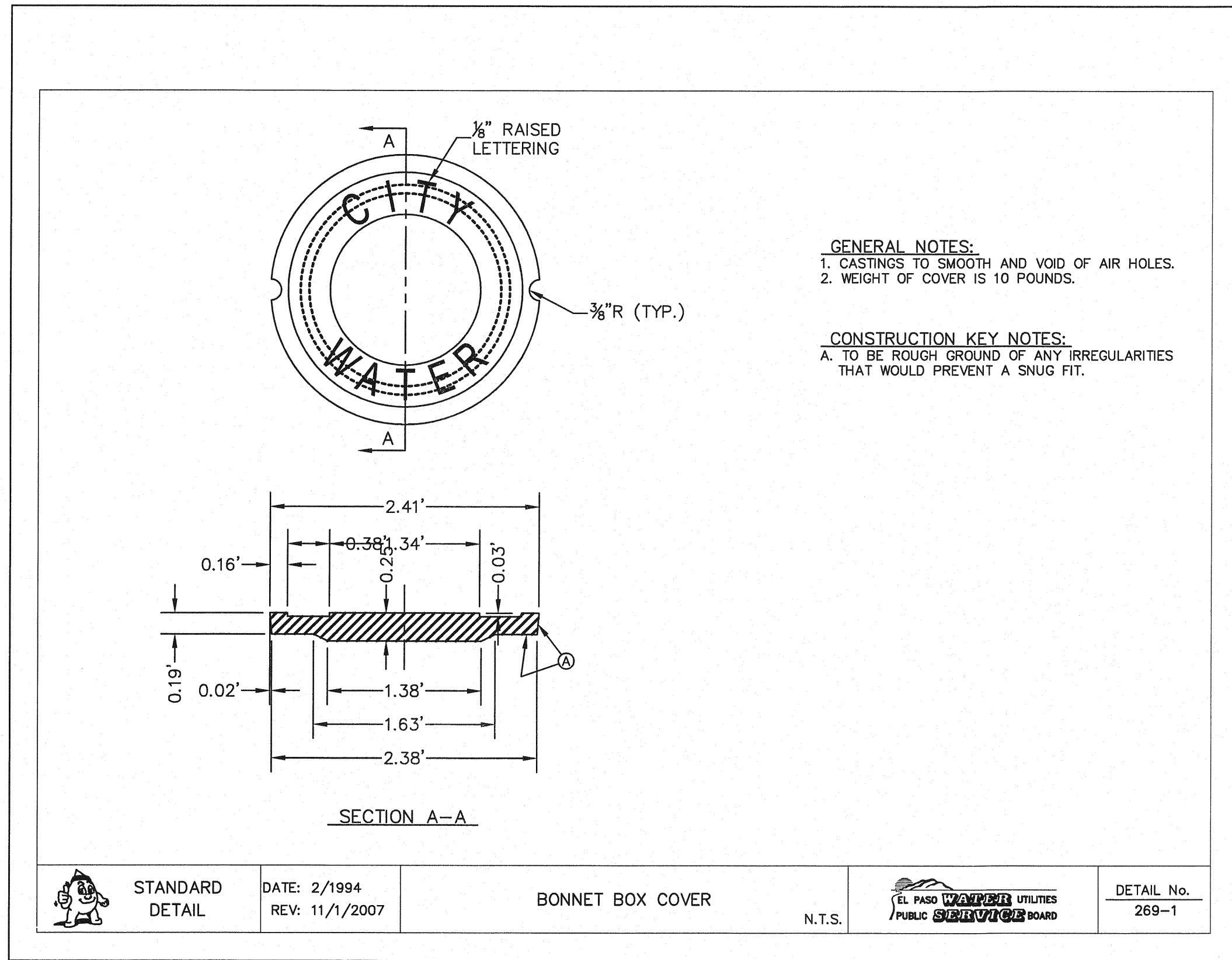
MESQUITE TRAILS UNIT SIX
SUBDIVISION IMPROVEMENTS

SHEET TITLE

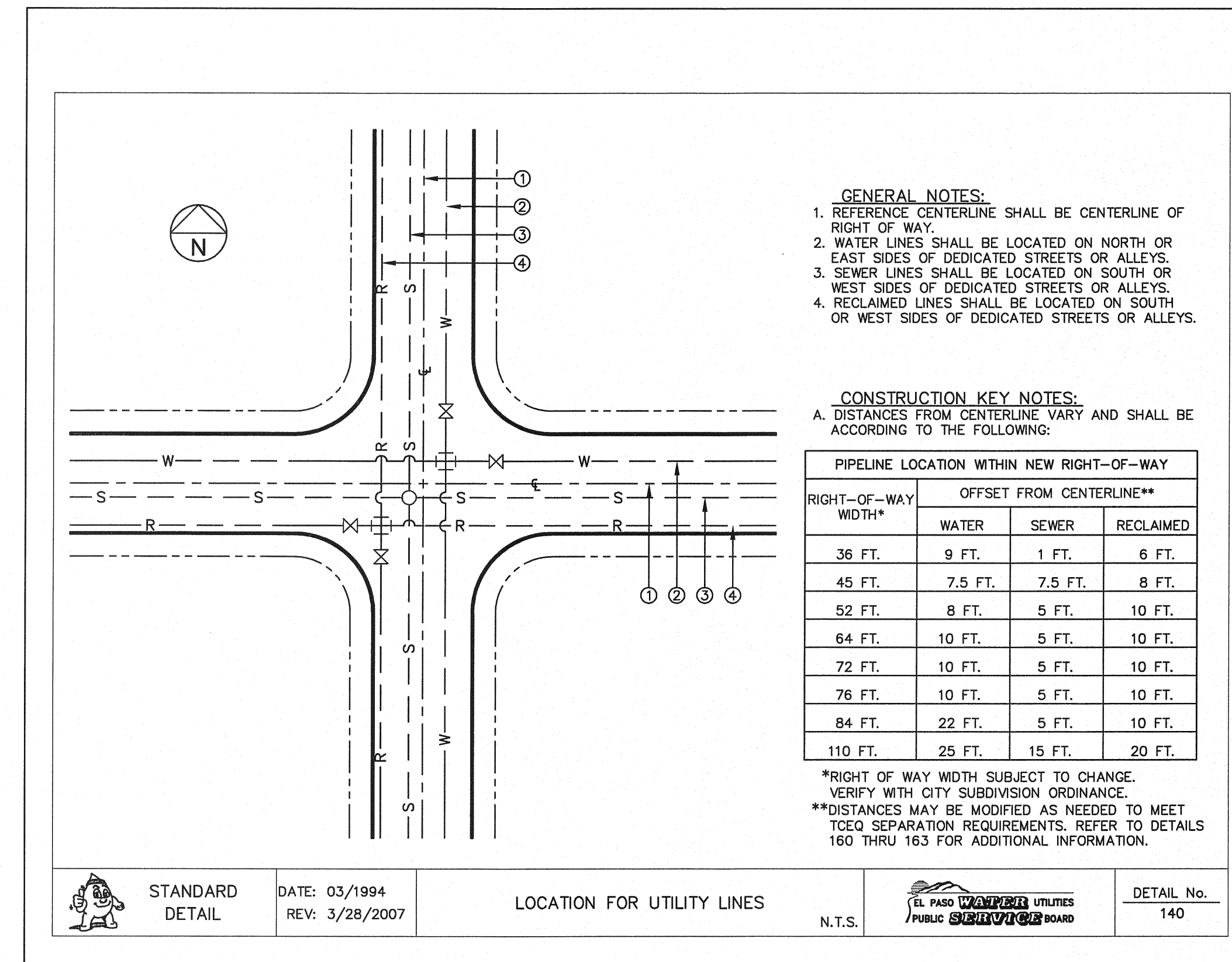
WATER DETAILS
(SHEET 1 OF 4)

SHEET NO.

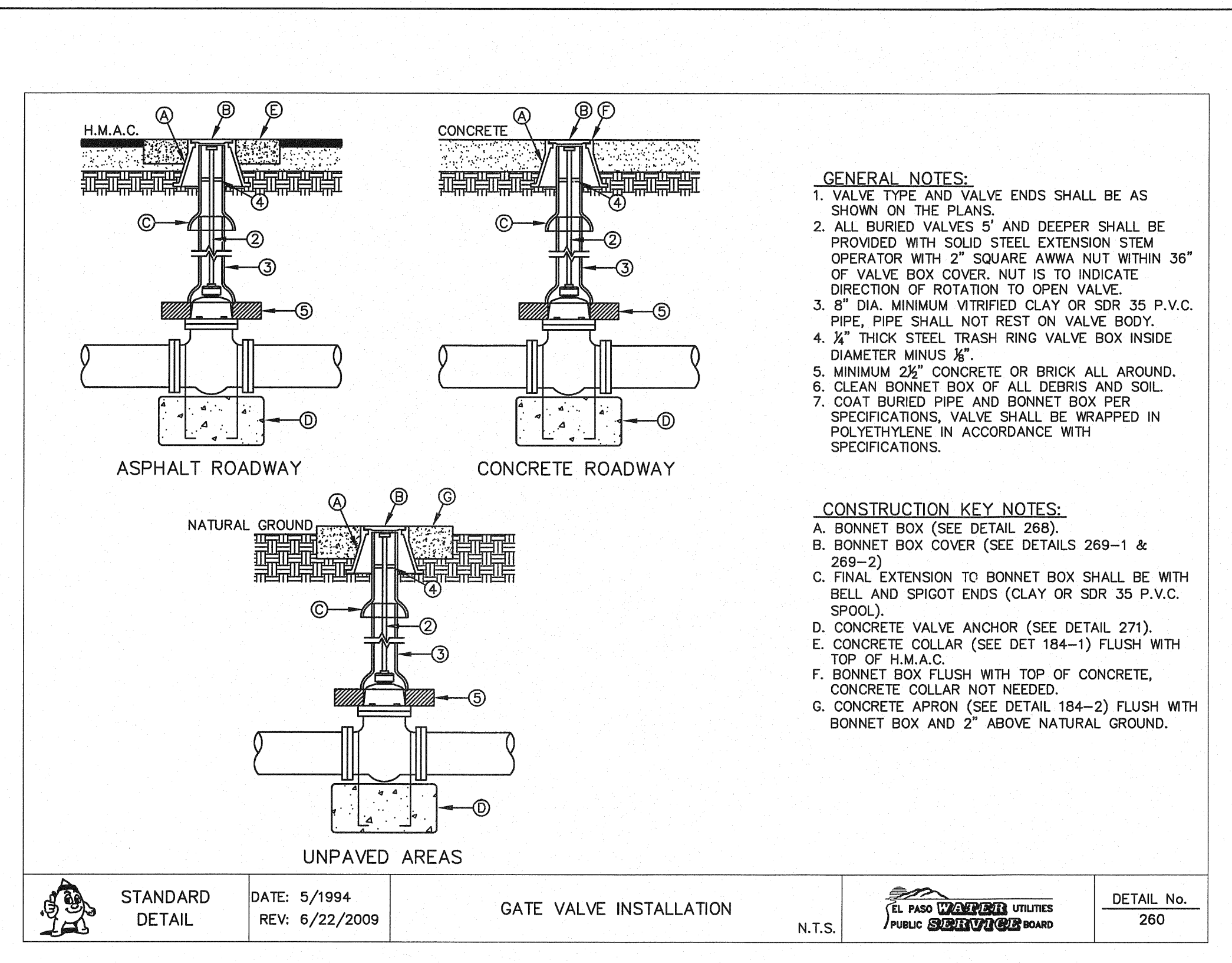
W-2



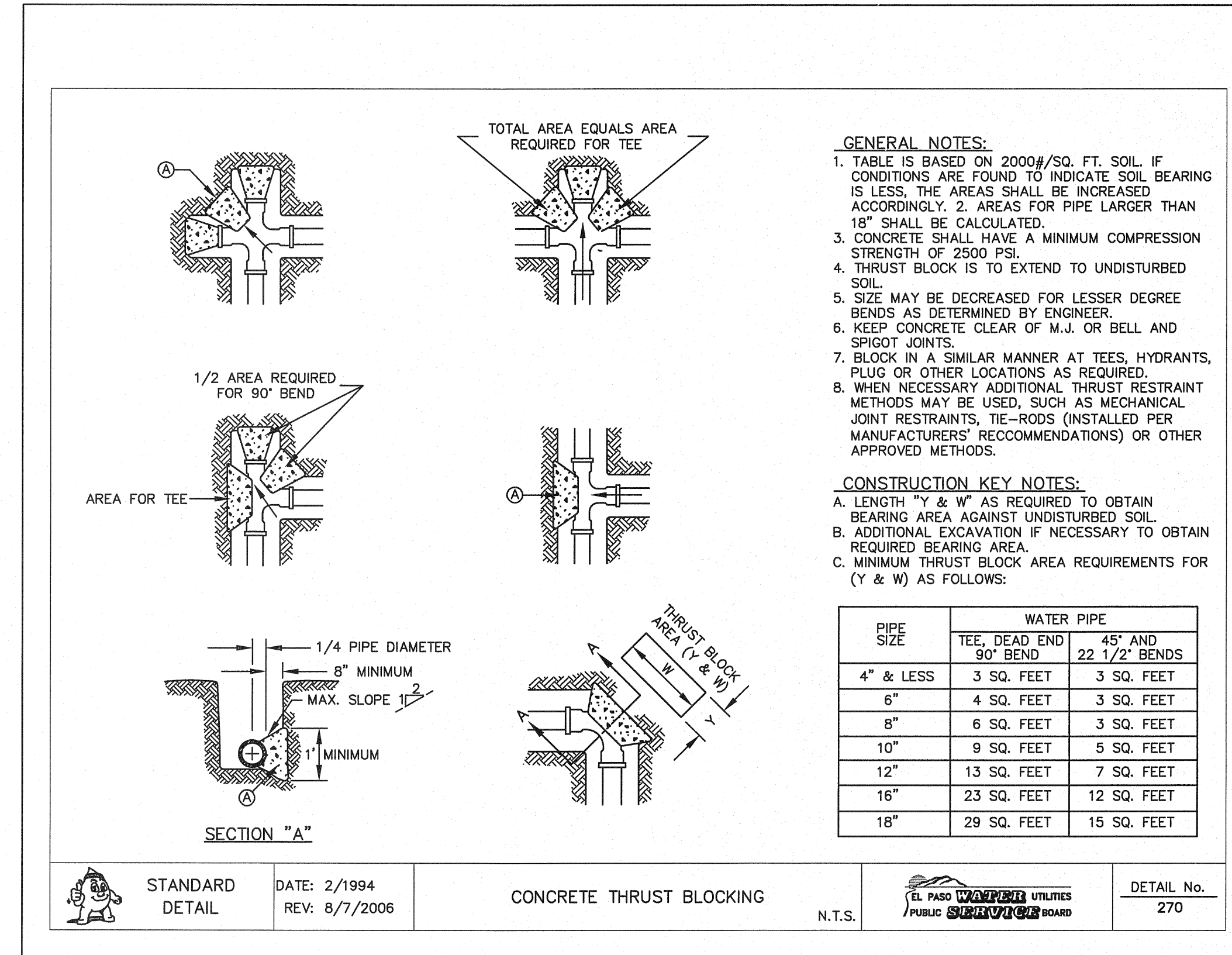
1 BONNET BOX COVER & EXTENSION
W-3 N.T.S.



2 STANDARD LOCATION FOR EXTENSIONS DETAIL
W-3 N.T.S.



3 GATE VALVE INSTALLATION
W-3 N.T.S.



4 THRUST BLOCKING
W-3 N.T.S.

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALFREGE CIRCLE AND PASEO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

CS&A
 engineers • architects • planners
 TEXAS REGISTERED ENGINEERING FIRM F-4684
 4712 Woodrow Bean, Ste. F, El Paso, TX 79924
 Office: 915.541.5232 Fax: 915.541.5233 www.csandapl.com



SCALE: N/A

Horizontal: N/A
 Vertical: N/A

Contour Interval: N/A

DATE: JUNE 2010
 DESIGN BY: F.Z.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.

JOB No. 2000-117-ID

PROJECT NAME

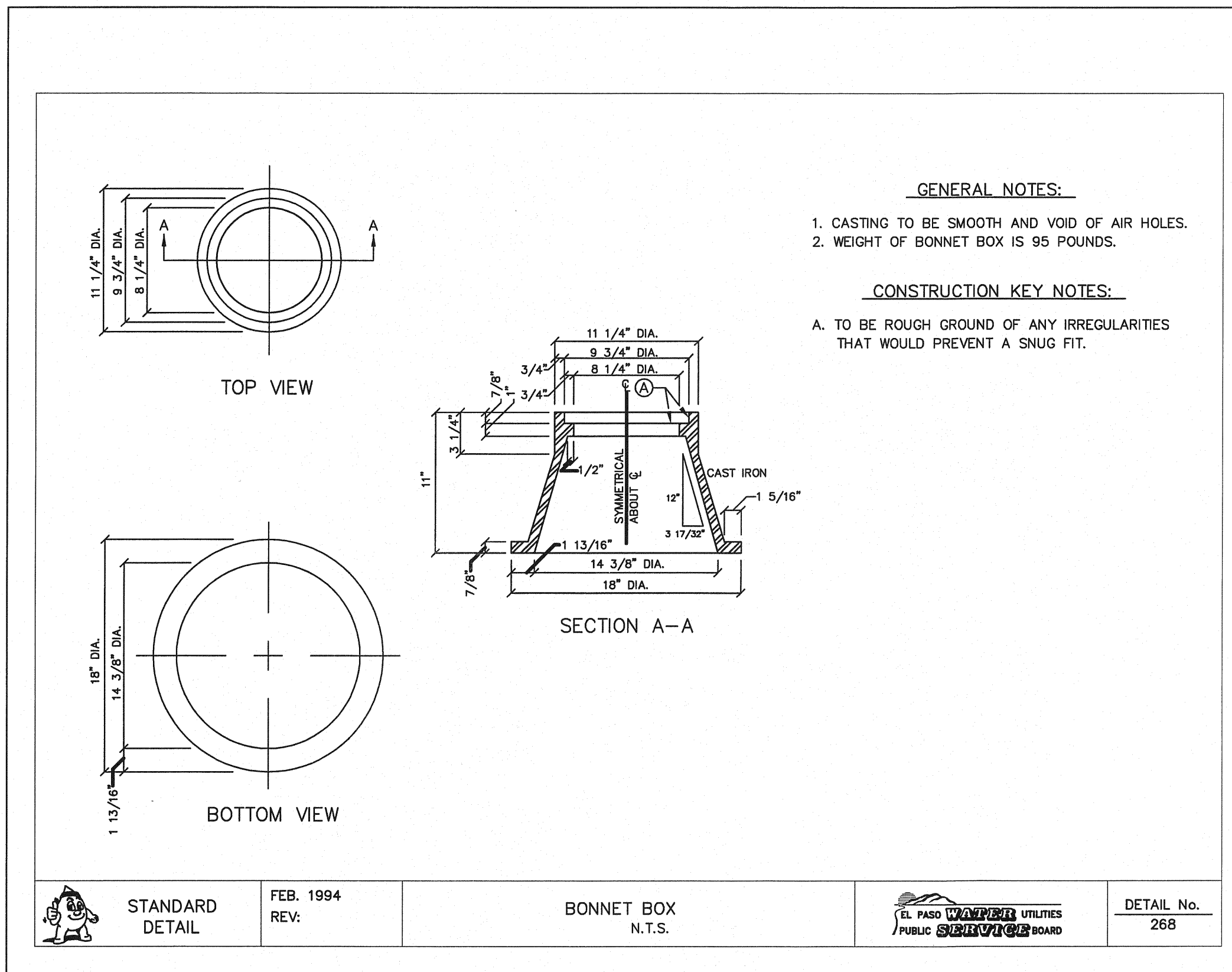
**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

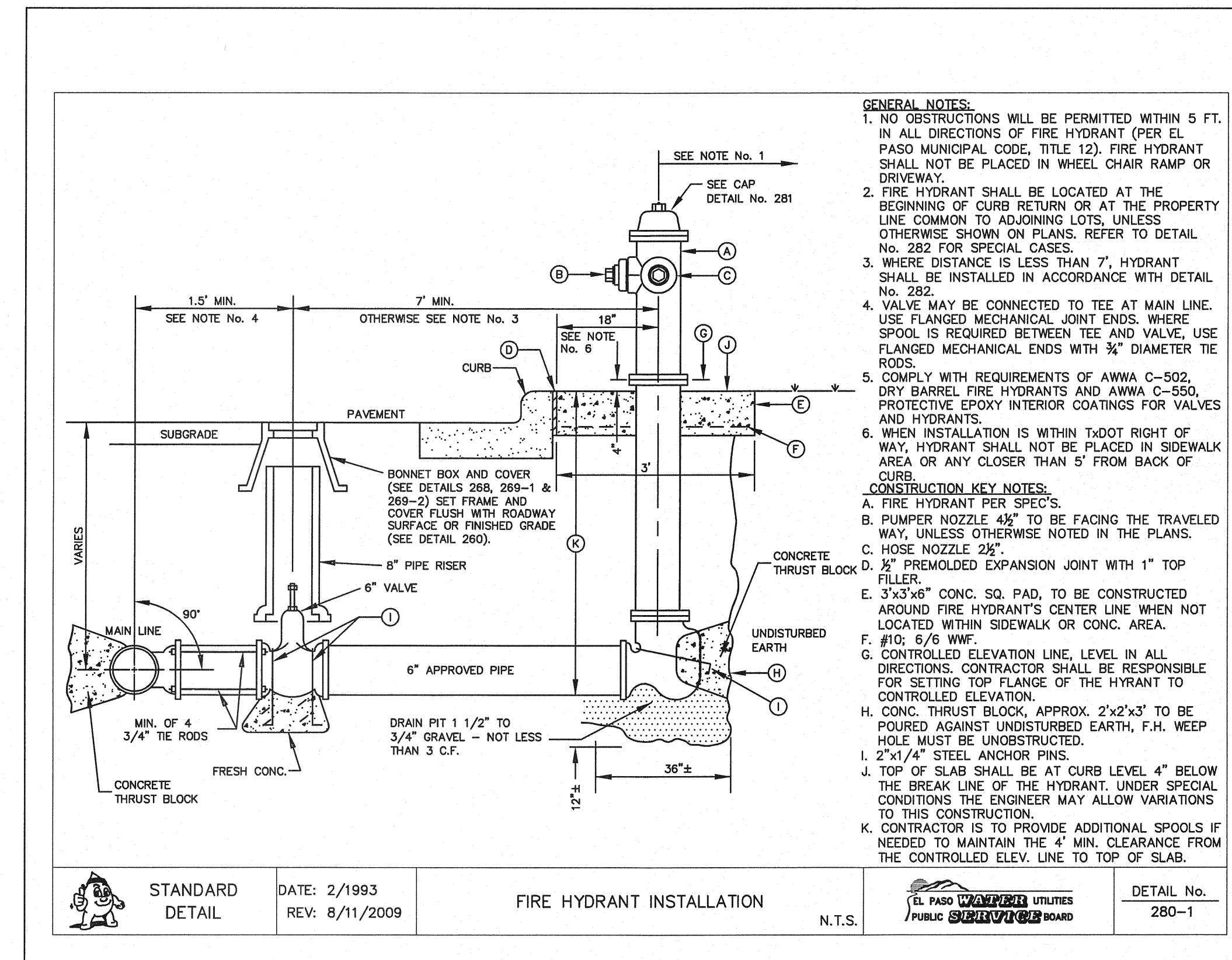
WATER DETAILS
(SHEET 2 OF 4)

SHEET NO.

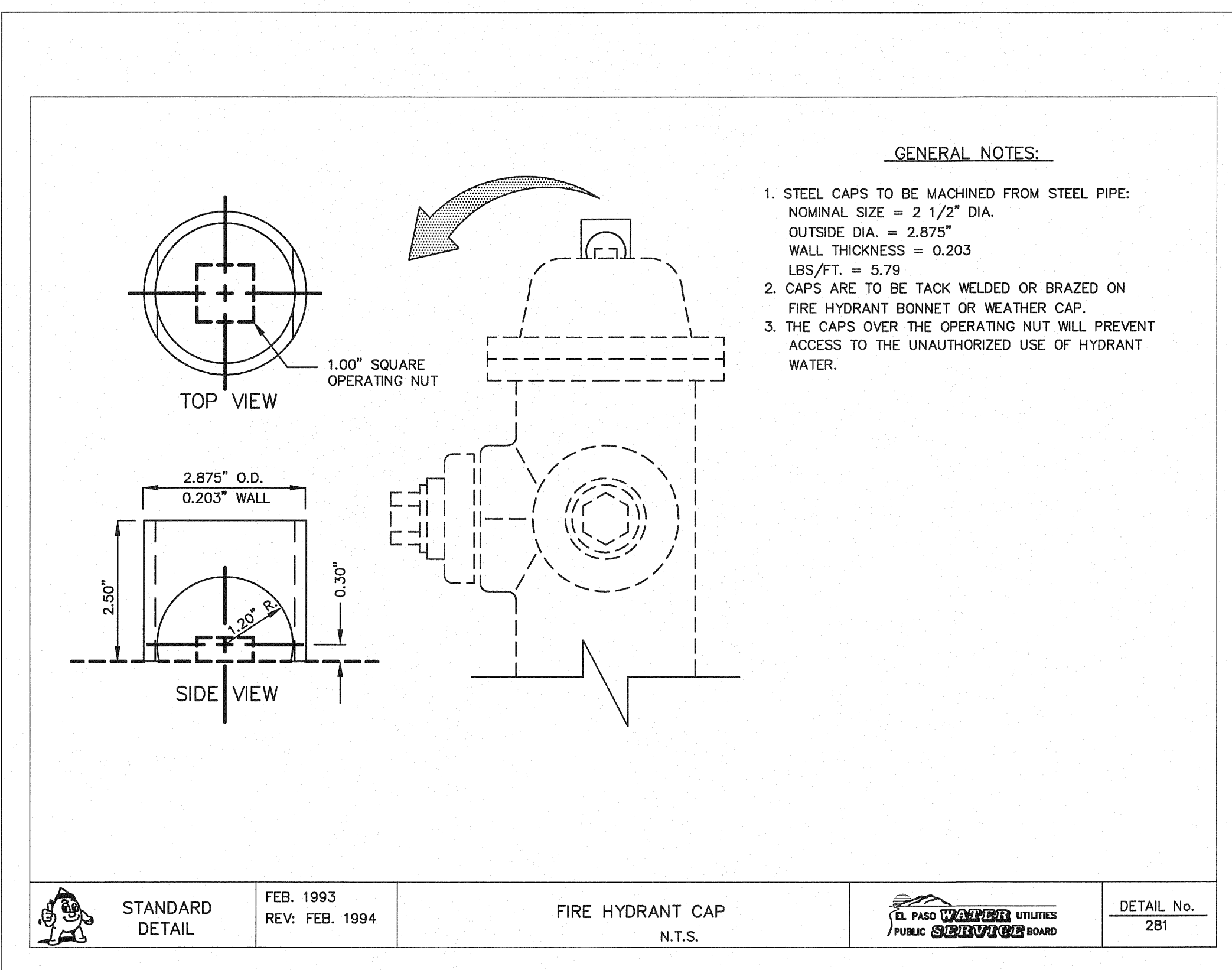
W-3



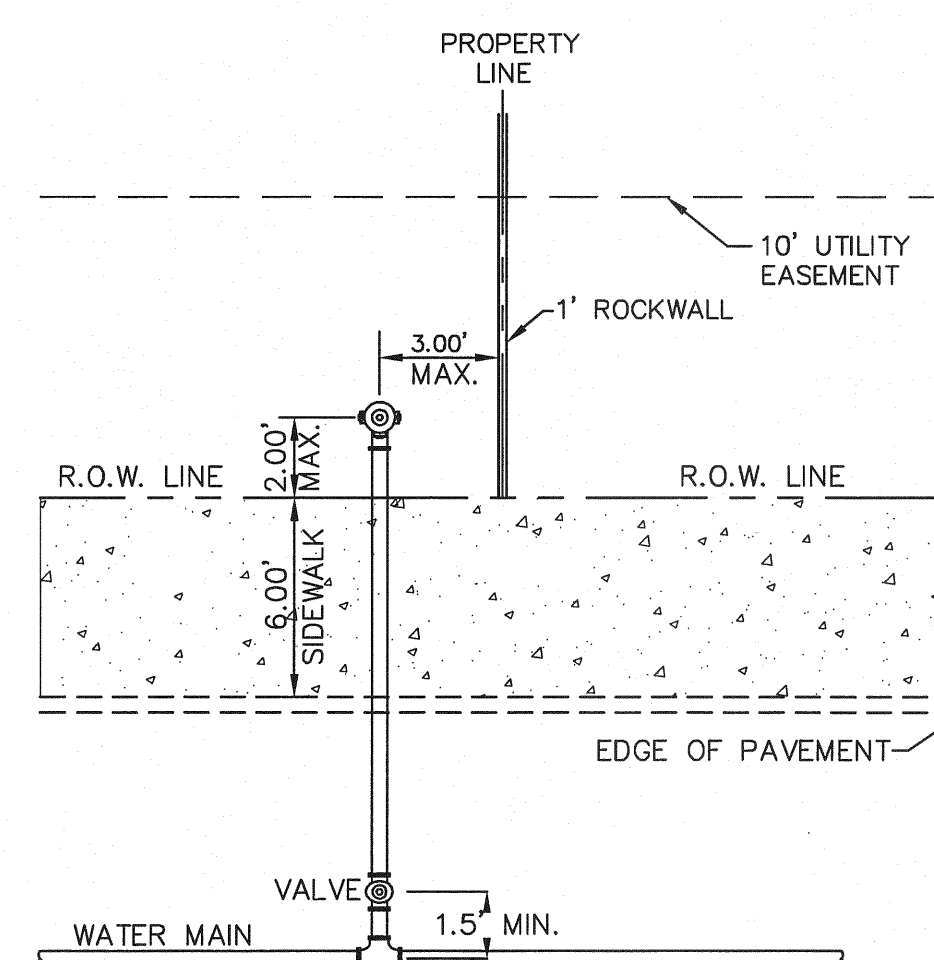
1 BONNET BOX
N.T.S.



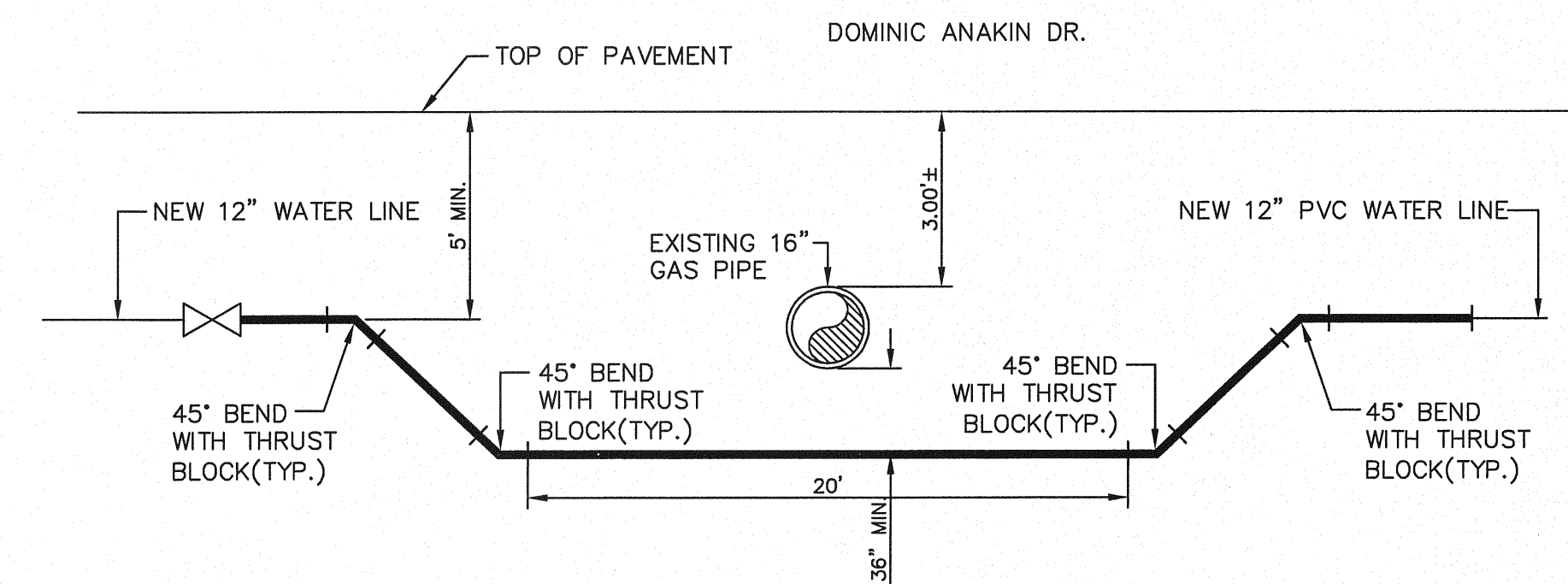
2 STANDARD FIRE HYDRANT INSTALLATION
N.T.S.



3 FIRE HYDRANT CAP
N.T.S.



4 FIRE HYDRANT LOCATIONS
N.T.S.

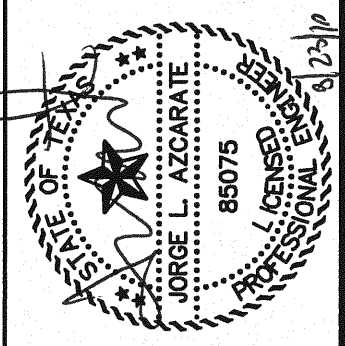


5 EXISTING GAS LINE CROSSING DETAIL
N.T.S.

REFERENCES - BENCHMARKS
 BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM)

DATE	REVISIONS	BY

CS&A
 engineers • architects • planners
 TEXAS REGISTERED ENGINEERING FIRM F-664
 4712 Woodrow Blvd., Ste. F El Paso, TX 79924
 Office: 915.544.5232 Fax: 915.544.5233 www.csandagroup.net



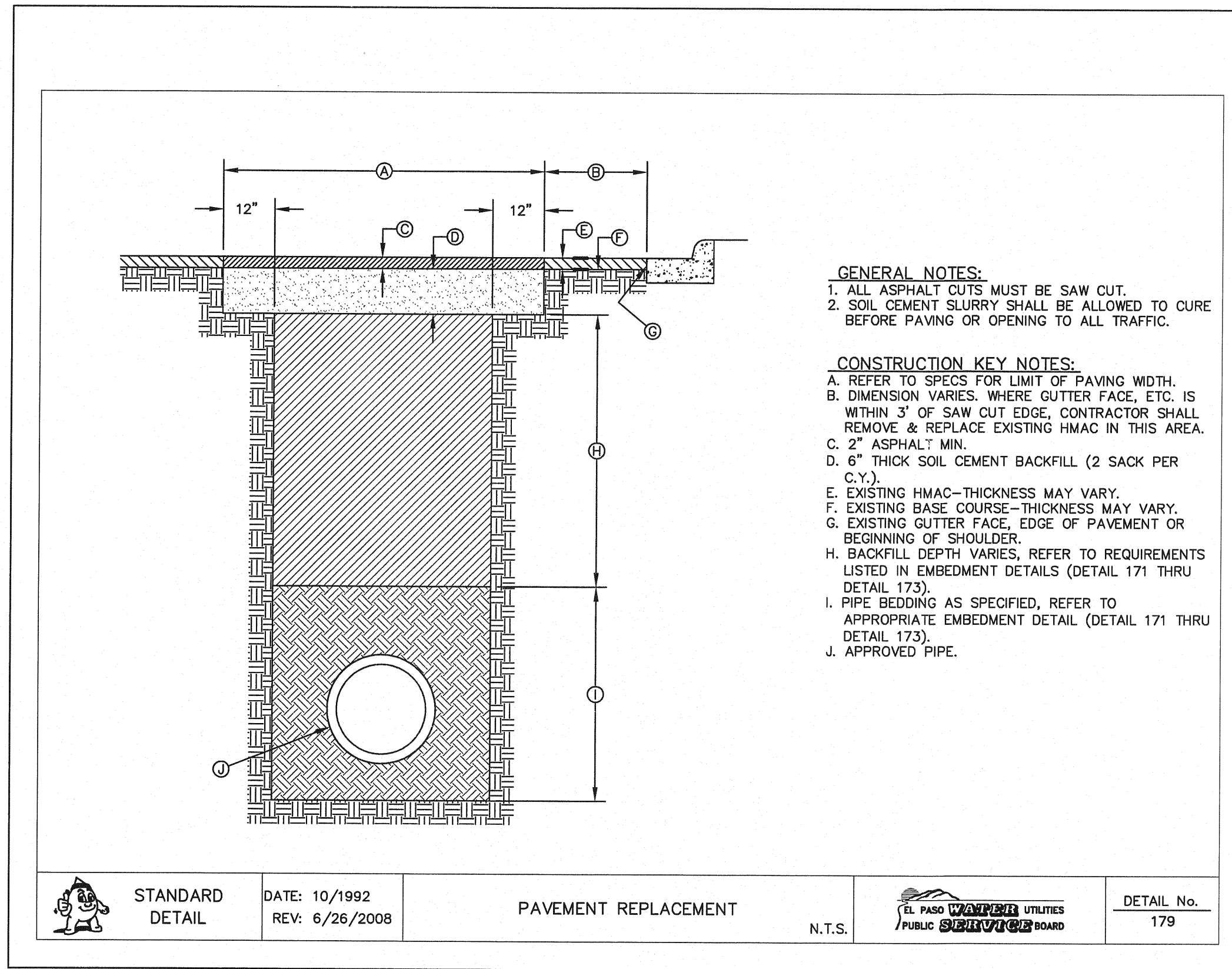
SCALE: N/A
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2010
 DESIGN BY: F.Z.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

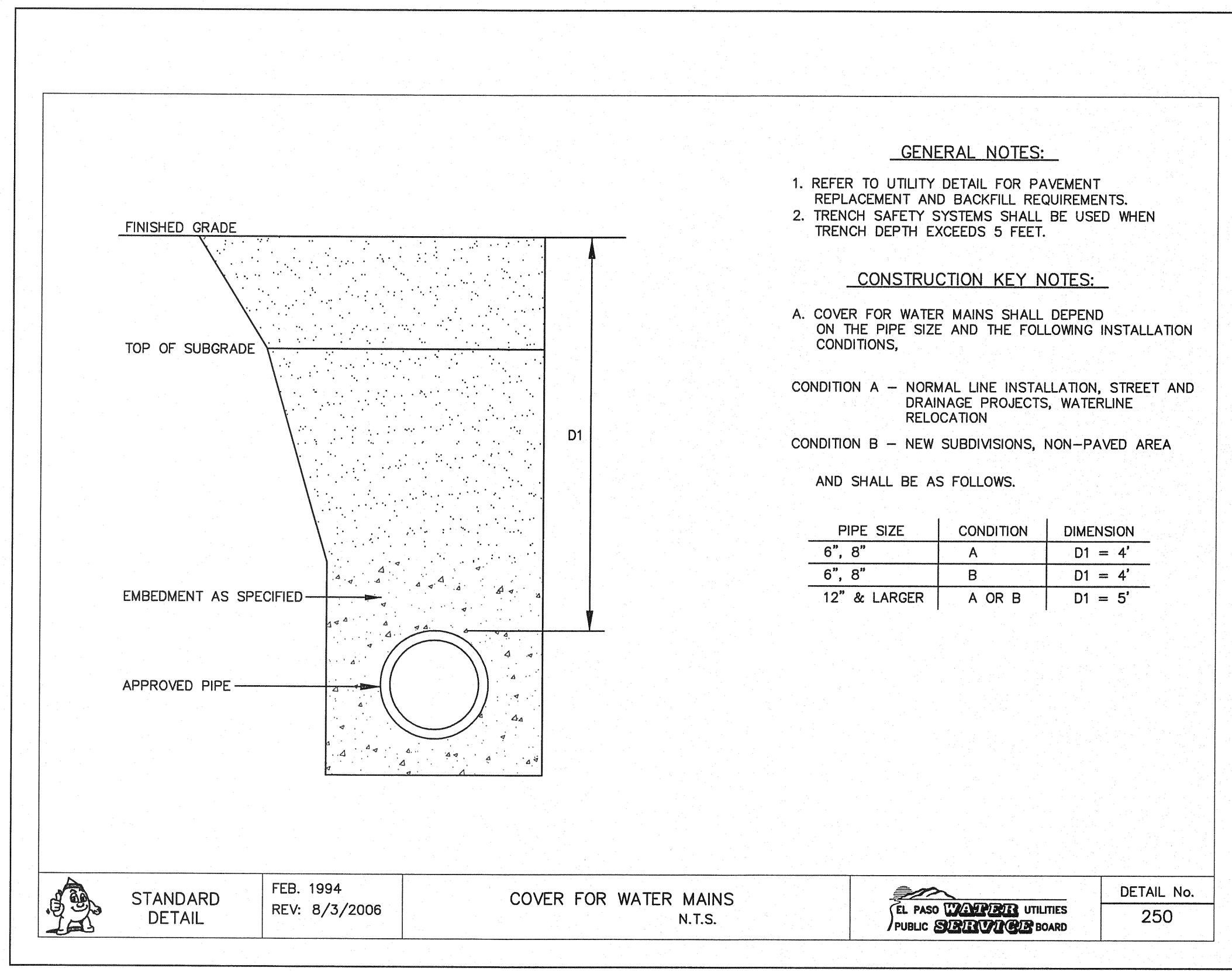
SHEET TITLE
**WATER DETAILS
 (SHEET 3 OF 4)**

SHEET NO.

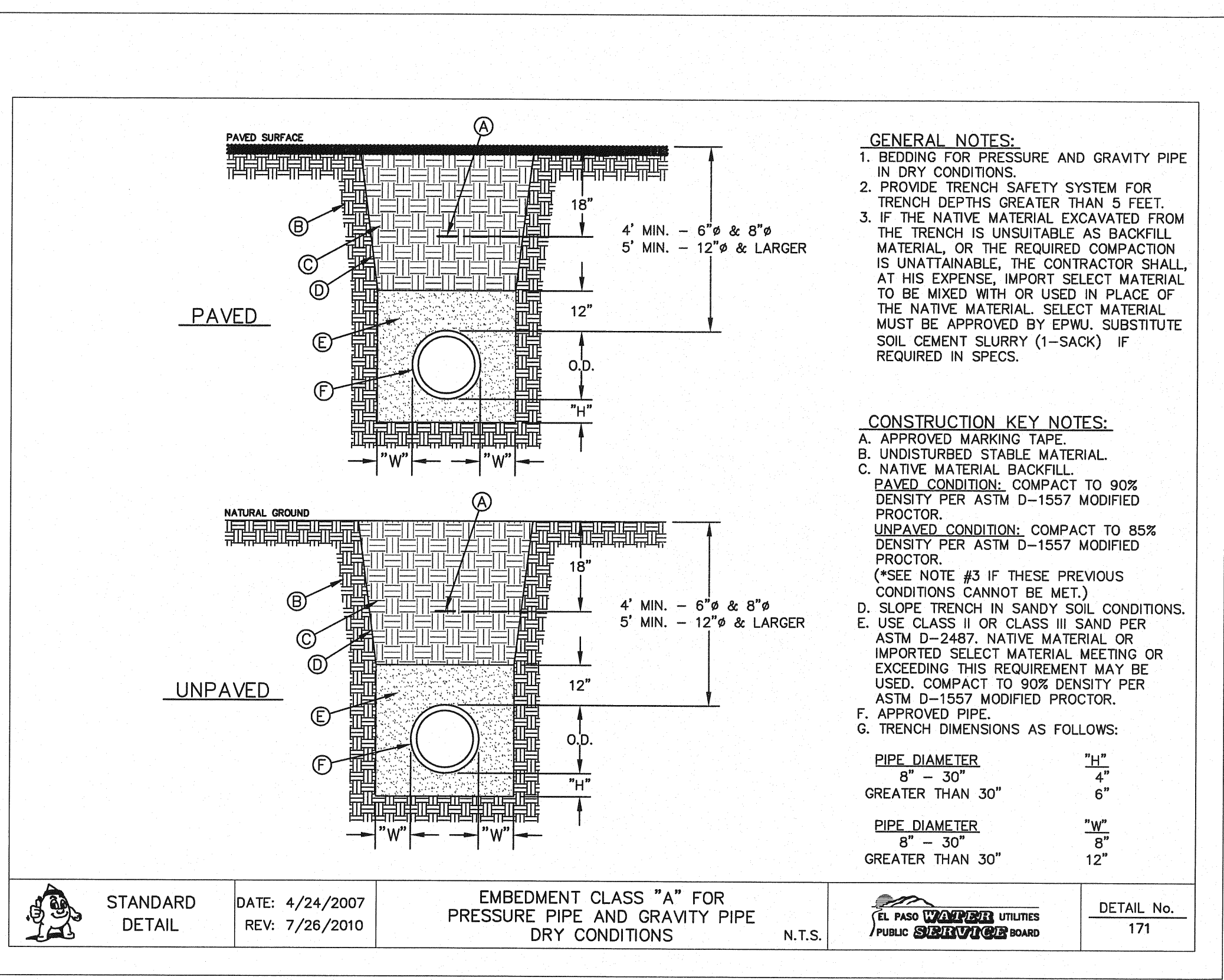
W-4



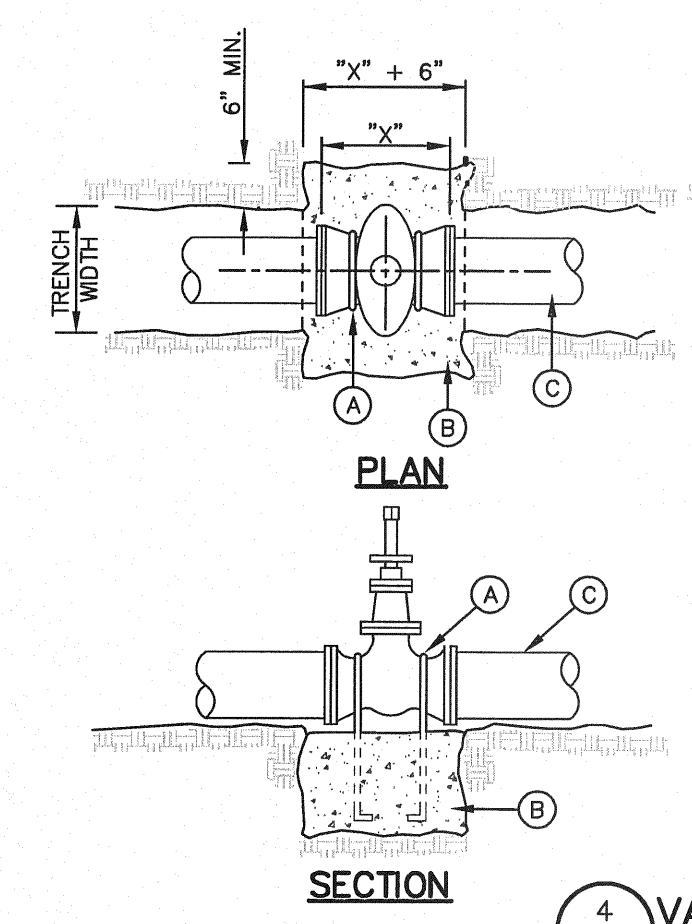
1 PAVEMENT REPAIR DETAIL
N.T.S.



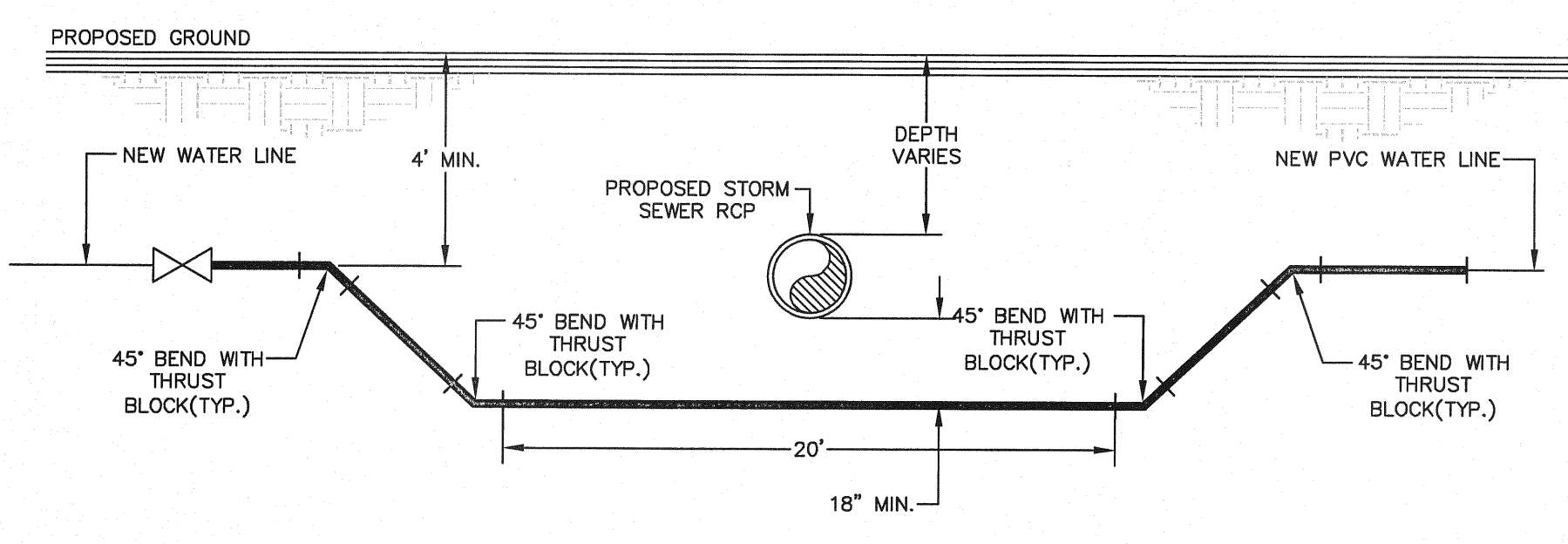
2 STANDARD COVER FOR WATER MAINS
N.T.S.



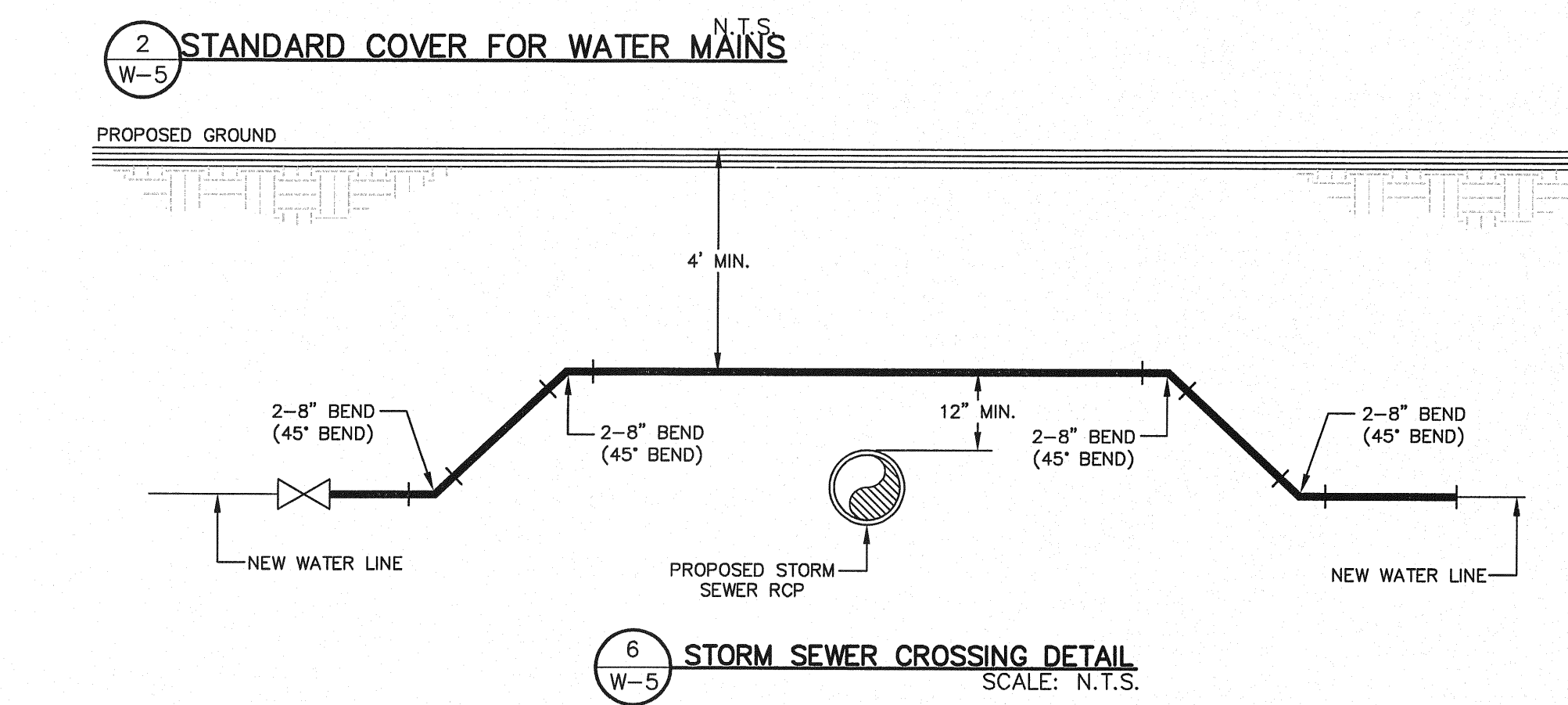
3 BEDDING CLASS DETAILS FOR P.V.C. PRESSURE PIPE
SCALE: N.T.S.



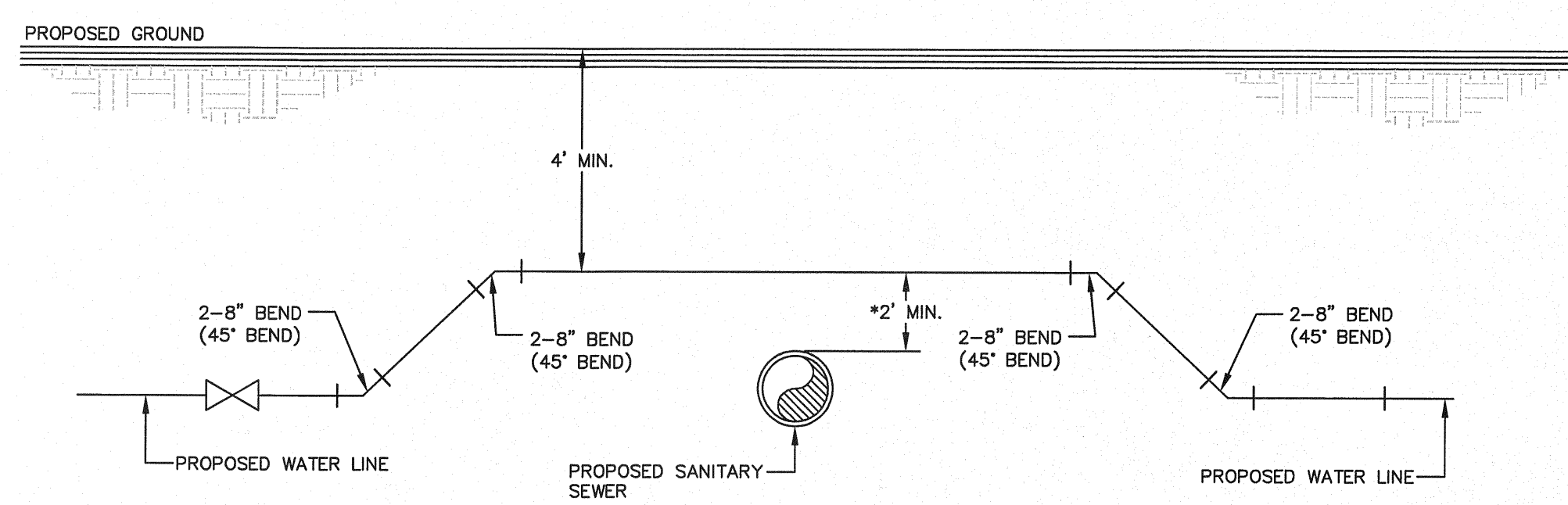
4 VALVE ANCHOR
N.T.S.



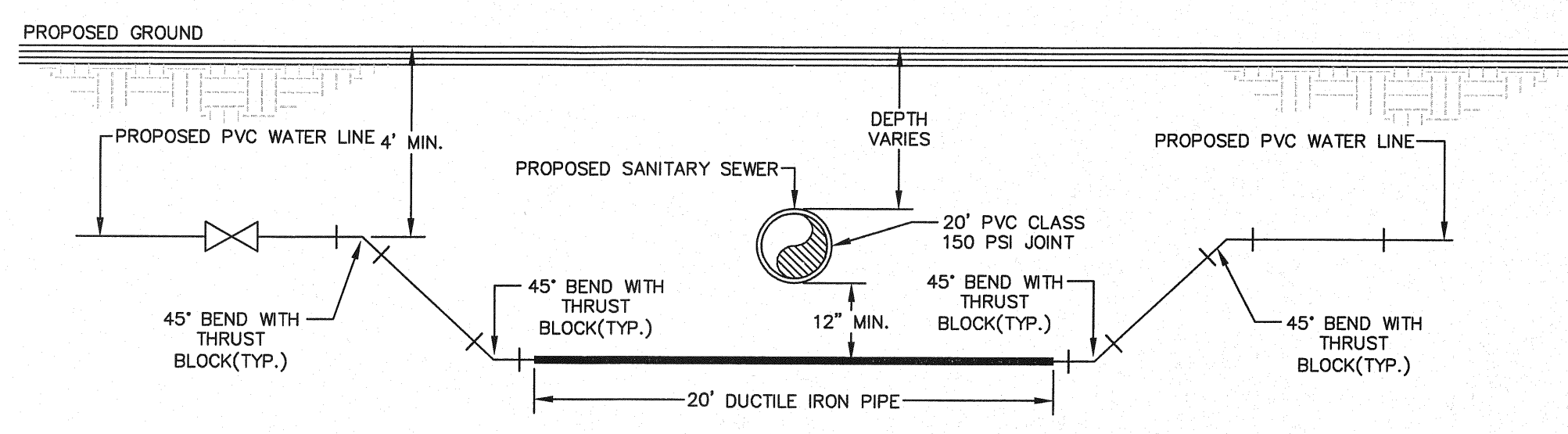
5 STORM SEWER CROSSING DETAIL
SCALE: N.T.S.



6 STORM SEWER CROSSING DETAIL
SCALE: N.T.S.



7 SANITARY SEWER CROSSING WATER LINE DETAIL
SCALE: N.T.S.

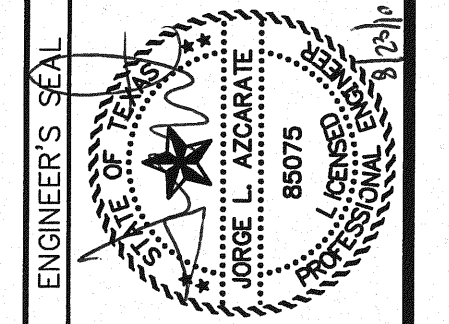


8 SANITARY SEWER CROSSING WATER LINE DETAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS
 BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE
 ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

CSA
 CONSULTING SERVICES ASSOCIATES
 engineers • architects • planners
 TEXAS REGISTERED ENGINEERING FIRM F-4664
 4712 Woodrow Bean, Ste. F, El Paso, TX 79924
 Office: 915.544.5222 Fax: 915.544.5225 www.csaonline.com



SCALE: N/A
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2010
 DESIGN BY: F.Z.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-117-LD

PROJECT NAME
**MESQUITE TRAILS UNIT SIX
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

WATER DETAILS
(SHEET 4 OF 4)

SHEET NO.

W-5